



DEPARTMENT OF ENVIRONMENTAL SERVICES
WATER POLLUTION CONTROL BUREAU

3402 S Glebe Rd. Arlington, VA 22202
TEL 703-228-6820 FAX 703-228-6875 TTY 703-228-4611 www.arlingtonva.us

February 12, 2013

Certified Mail

Ms. Anna Westernik
Regional Pretreatment Coordinator
Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

**RE: Arlington County Renewal Applications for VPDES Permit #VA0025143
and Sewage Sludge Permit**

Dear Ms. Westernik:

Enclosed are the renewal applications for Arlington County VPDES Permit #VA0025143 and Sewage Sludge Permit. Should you have any questions regarding these applications, please contact me at (703) 228-6881, or wrdodge@arlingtonva.us.

Very truly yours,

A handwritten signature in cursive script that reads "Beau Dodge".

Beau Dodge, REM
Pretreatment Program Coordinator

Cc: Larry Slattery
Bernie Raiford





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March 22, 2013

Ms. Anna Westernik
Regional Pretreatment Coordinator
Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

**RE: Permit Renewal Application Amendment to 2/14/13 Submittal
(VPDES Permit VA0025143)**

Dear Ms. Westernik:

The purpose of this letter is to specifically address the comments articulated in DEQ's correspondence of 2/28/13. The following clarifications are submitted for your consideration, and the amended application pages are attached:

EPA Form 2A

1. Provide Certificates of Analyses for the testing performed. We were able to locate all but one certificate of analysis for the requested data. The unsubstantiated results were for a 7/8/2008 copper result of 0.9 ug/L. However, we also had a result for copper on that same day for 1.9 ug/L – for which we do have a certificate. We suspect one of two things – (1) we misplaced the certificate of analysis for the sample, or; (2) there was a duplicate entry (with a typo) of the certified 1.9 ug/L sample results. Since we have a relatively high number of existing data points for copper anyway, we have elected to drop the unsubstantiated 0.9 ug/L results from the average calculation. This barely changed the average daily calculation of copper from 1.58 to 1.60 ug/L.

2. Item A.8; A.9 – The designation of Outfall 002 for the emergency bypass needs to be removed. Please designate this location as an emergency bypass only without specifying an outfall number. Done.

3. B.5.D – Please indicate the phases of construction that remain and the anticipated completion dates. Phase eight (8) is the last remaining construction phase to be completed – the Wet Weather Facility. When operational in July 2013, its process wastestream will discharge to the existing Filtration and Disinfection Facility (FADF). Construction activities should be completed by August 2013. There is a small amount of landscaping work yet to be completed from Phase 7J, but that should be finished in April 2013.

4. B.6 – Please indicate why the average daily discharge of chlorine is greater than the permitted value. The plant effluent TRC value of 0.04 mg/L is the average of the 17,544 data points recorded from 7/1/2008 to 10/31/2012. This average was calculated based on the raw data which was not processed according to the permit requirements (i.e. if TRC value <QL {0.1 mg/l}, report 0). The plant effluent TRC value of 0.25 mg/L is the maximum value recorded of those same data points. Arlington County's permit limits for the effluent TRC are 0.008 mg/L (monthly avg) and 0.010 (weekly avg), respectively and

this is applicable after the raw data has been processed such that TRC values less than the QL are reported as zero prior to the calculation of the averages. We do not have any instantaneous or daily average effluent TRC permit limits for which to compare 0.04 mg/L or 0.25 mg/L, respectively. As for the 0.25 mg/L maximum value, this occurred twice during September 2008 – at 2000 on 9/6/08 and at 2200 on 9/13/08, respectively. However, when these values were averaged in with their respective weekly and monthly values, no permit limits were violated for these incidents.

5. *The map of the treatment plant shows numerous numbered outfalls. Please indicate clearly ones that are active and inactive storm water outfalls.* A modified drawing is included in the amendment. Outfalls 004, 006, 007, and 008 are all active stormwater outfalls. Outfalls 003 and 005 are both inactive stormwater outfalls.

VPDES Permit Application Addendum


Could you please qualify the statement in Question No. 9 regarding changes in your operations or procedures since the approval dates of the Operations and Maintenance (O&M) Manual and the Sludge/Solids Management Plan? I believe that there have not been changes since the O&M Manual was approved in 2011 but there have been changes to the Sludge/Solids Management Plan. New Standby Generator Facility Operational Procedures dated June 2012; otherwise, O&M Manuals and Sludge Management Plans are current until new Wet Weather Facility is brought online in July 2013.

Sewage Sludge Permit Application Form

Please provide an explanation for the increase in the dry metric tons of sludge produced as shown in B.1. The entry of 33,053 dry metric tons was incorrect. That figure came from mistakenly interpreting Synagro's monthly reports in preparing the Permit application form. Instead of only accounting for Arlington's dry ton applications, biosolids from other POTWs applied to those same fields were also included in the calculation. The corrected value should be 11,680 dry metric tons applied, as was reported to the USEPA Region III State Coordinator in our Federal Sludge Program Discharge Monitoring Report dated February 1, 2013. This corrected value is more in line with previous annual sludge productions.

Should you have any questions regarding this report, please contact myself or Beau Dodge of my staff at (703) 228-6881, or wrddodge@arlingtonva.us.

Sincerely,

 3/22/13

Lawrence Slattery
Bureau Chief

cc: Frank Corsoro
Bernie Raiford
Beau Dodge

FORM
2A
NPDES**NPDES FORM 2A APPLICATION OVERVIEW****APPLICATION OVERVIEW**

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants.** All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow \geq 0.1 mgd.** All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification.** All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data.** A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data.** A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes.** A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086

BASIC APPLICATION INFORMATION

PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:

All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.

A.1. Facility Information.

Facility name Arlington County Water Pollution Control Facility

Mailing Address 3402 South Glebe Road
Arlington, VA 22202

Contact person Larry Slattery

Title Bureau Chief

Telephone number (703) 228-6820

Facility Address same as above
(not P.O. Box) _____

A.2. Applicant Information. If the applicant is different from the above, provide the following:

Applicant name Arlington County Board

Mailing Address #1 Courthouse Plaza
Arlington, VA 22201

Contact person Carl Newby

Title Deputy Director, Department of Environmental Services

Telephone number (703) 228-6494

Is the applicant the owner or operator (or both) of the treatment works?

☒ owner ☐ operator

Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.

☒ facility ☐ applicant

A.3. Existing Environmental Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits).

A.R. Registration No. 70026; WASH EPA ID No. VAD98072041
AST Registration ID 3011817

NPDES VA0025143 PSD _____

UIC _____ Other VAN010021: Gen Permit Nutrients

RCRA _____ Other VAR051421: Gen Stormwater Permit Industrial

A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).

Name	Population Served	Type of Collection System	Ownership
<u>Arlington</u>	<u>233,618 (daytime)</u>	<u>Separate</u>	<u>Municipal</u>
<u>Alexandria (portion)</u>	<u>30,875</u>	<u>Separate</u>	<u>Municipal</u>
<u>Fairfax & Falls Ch (portion)</u>	<u>39,107</u>	<u>Separate</u>	<u>Municipal</u>
Total population served <u>303,600</u>			

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99
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Arlington County Water Pollution Control Facility - VA0025143

A.5. Indian Country.

- a. Is the treatment works located in Indian Country?

☐ Yes ☒ No

- b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?

☐ Yes ☒ No

A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

- a. Design flow rate
- 40
- mgd

	Two Years Ago	Last Year	This Year
b. Annual average daily flow rate	<u>24.3</u>	<u>23.3</u>	<u>21.2</u> mgd
c. Maximum daily flow rate	<u>47.8</u>	<u>66.1</u>	<u>55.1</u> mgd

A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each.

☒ Separate sanitary sewer 100 %

☐ Combined storm and sanitary sewer %

A.8. Discharges and Other Disposal Methods.

- a. Does the treatment works discharge effluent to waters of the U.S.?
- ☒
- Yes
- ☐
- No

If yes, list how many of each of the following types of discharge points the treatment works uses:

i. Discharges of treated effluent	<u>1 (Outfall 001)</u>
ii. Discharges of untreated or partially treated effluent	<u>Emergency bypass only</u>
iii. Combined sewer overflow points	<u>Lat: 38° 50' 28.62" N</u>
iv. Constructed emergency overflows (prior to the headworks)	<u>Lon: 77° 03' 19.2" W</u>
v. Other <u> </u>	<u>0</u>
	<u>0</u>
	<u>N/A</u>

- b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.?
- ☐
- Yes
- ☒
- No

If yes, provide the following for each surface impoundment:

Location: N/A

Annual average daily volume discharged to surface impoundment(s) N/A mgd

Is discharge continuous or intermittent?

- c. Does the treatment works land-apply treated wastewater?
- ☐
- Yes
- ☒
- No

If yes, provide the following for each land application site:

Location: N/A

Number of acres: N/A

Annual average daily volume applied to site: N/A Mgd

Is land application continuous or intermittent?

- d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works?
- ☐
- Yes
- ☒
- No

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FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

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If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe).

N/A

If transport is by a party other than the applicant, provide:

Transporter name: _____

Mailing Address: _____

Contact person: _____

Title: _____

Telephone number: _____

For each treatment works that receives this discharge, provide the following:

Name: _____

Mailing Address: _____

Contact person: _____

Title: _____

Telephone number: _____

If known, provide the NPDES permit number of the treatment works that receives this discharge. _____

Provide the average daily flow rate from the treatment works into the receiving facility. _____

mgd

- e. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)?

____ Yes

☒ No

If yes, provide the following for each disposal method:

Description of method (including location and size of site(s) if applicable):

N/A

Annual daily volume disposed of by this method: _____

Is disposal through this method _____

continuous or _____

intermittent?

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

A.9. Description of Outfall.

- a. Outfall number 001
- b. Location Arlington 22202
(City or town, if applicable) (Zip Code)
Arlington VA
(County) (State)
38° 50' 37.74" N 77° 03' 39.30" W
(Latitude) (Longitude)
- c. Distance from shore (if applicable) N/A ft.
- d. Depth below surface (if applicable) N/A ft.
- e. Average daily flow rate 21.2 mgd
- f. Does this outfall have either an intermittent or a periodic discharge? Yes ☒ No (go to A.9.g.)
- If yes, provide the following information:
- Number of times per year discharge occurs: N/A
- Average duration of each discharge: N/A
- Average flow per discharge: N/A mgd
- Months in which discharge occurs: N/A
- g. Is outfall equipped with a diffuser? Yes ☒ No

A.10. Description of Receiving Waters.

- a. Name of receiving water Four Mile Run
- b. Name of watershed (if known) Potomac
- United States Soil Conservation Service 14-digit watershed code (if known): unknown
- c. Name of State Management/River Basin (if known): unknown
- United States Geological Survey 8-digit hydrologic cataloging unit code (if known): 02070010
- d. Critical low flow of receiving stream (if applicable):
acute unknown cfs chronic unknown cfs
- e. Total hardness of receiving stream at critical low flow (if applicable): unknown mg/l of CaCO₃

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FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99
OMB Number 2040-0086

Arlington County Water Pollution Control Facility - VA0025143

A.11. Description of Treatment.

- a. What levels of treatment are provided? Check all that apply.

☒ Primary ☒ Secondary
☒ Advanced ☐ Other. Describe: _____

- b. Indicate the following removal rates (as applicable):

Design BOD₅ removal or Design CBOD₅ removal 97.7 %
 Design SS removal 97.4 %
 Design P removal 97.4 %
 Design N removal 92.7 %
 Other _____ %

- c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

sodium hypochlorite

If disinfection is by chlorination, is dechlorination used for this outfall?

☒ Yes ☐ No

- d. Does the treatment plant have post aeration?

☒ Yes ☐ No

A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: 001

Flow values: CY2012 Temps: CY2011/2012

Sample results: 7/2008-10/2012

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)	4.1	s.u.			
pH (Maximum)	8.0	s.u.			
Flow Rate	55.12	MGD	21.2	MGD	366
Temperature (Winter)	25.0	°C	19.0	°C	303
Temperature (Summer)	30.6	°C	24.9	°C	428

* For pH please report a minimum and a maximum daily value

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		

CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.

BIOCHEMICAL OXYGEN DEMAND (Report one)	BOD-5	N/A					
	CBOD-5	19	mg/L	0.7	mg/L	1568	SM 5210B 5.0 / 2.0
FECAL COLIFORM	E-coli	8000 **	CFU/CmL	1.98	CFU/CmL	1100	Idexx QT/2000 1.0 / N/A
TOTAL SUSPENDED SOLIDS (TSS)		113.6	mg/L	1.5	mg/L	1571	SM 2540D 1.0 / N/A

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

** False result from 2009 due to Hach contaminated broth - changed to Idexx method as result

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086**BASIC APPLICATION INFORMATION****PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).**All applicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).**B.1. Inflow and Infiltration.** Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.1,000,000 gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

Inspection, maintenance & repair manholes/mains; WSS Bureau has rehab/replacement program - relined 26%**B.2. Topographic Map.** Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)

- The area surrounding the treatment plant, including all unit processes.
- The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
- Each well where wastewater from the treatment plant is injected underground.
- Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
- Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
- If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.

B.3. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.**B.4. Operation/Maintenance Performed by Contractor(s).**Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? ☐ Yes ☒ No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: N/A

Mailing Address: _____

Telephone Number: _____

Responsibilities of Contractor: _____

B.5. Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)

- List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.

001

- Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

☐ Yes ☒ No

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

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- c. If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).

N/A

- d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

Implementation Stage	Schedule MM / DD / YYYY	Actual Completion MM / DD / YYYY	
- Begin construction	11 / 01 / 2011	11 / 01 / 2011	Phase 8 (Wet Weather Facility) is the final phase of construction.
- End construction	08 / 31 / 2013	___ / ___ / ___	There still remains minor
- Begin discharge	06 / 01 / 2013	___ / ___ / ___	landscaping from Phase 7J to be
- Attain operational level	07 / 31 / 2013	___ / ___ / ___	completed by 4/30/13.

- e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained?
- ☒
- Yes
- ☐
- No

Describe briefly: Construction of Wet Weather Facility to alleviate process
bottlenecks during high flow events

B.6. EFFLUENT TESTING DATA (GREATER THAN 0.1 MGD ONLY).

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. Sample results: 7/2008-10/2012 (except for

Outfall Number: 001

TRC - excludes 7/08, 11/08, 3/09, 9/11)

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.							
AMMONIA (as N)	12.3	mg/L	0.33	mg/L	1571	EPA 350.1/129-A	0.2 / 0.193
CHLORINE (TOTAL RESIDUAL, TRC)	0.25	mg/L	0.04	mg/L	17,544	Hach 8167	0.1 / 0.01
DISSOLVED OXYGEN	12	mg/L	8.65	mg/L	1417	Hach 8215/8332	6.0 / N/A
TOTAL KJELDAHL NITROGEN (TKN)	12	mg/L	1.41	mg/L	725	EPA 351.2 Lach	0.5 / 0.1
NITRATE PLUS NITRITE NITROGEN	20.3	mg/L	3.01	mg/L	682	EPA 353.2	0.5 / 0.13
OIL and GREASE	7.8	mg/L	3.83	mg/L	7	EPA 1664	5.0 / 1.0
PHOSPHORUS (Total)	3.05	mg/L	0.07	mg/L	1570	SM 4500-P-E	0.05 / 0.008
TOTAL DISSOLVED SOLIDS (TDS)	400	mg/L	338	mg/L	6	SM 2540C	5.0 / 1.0
OTHER							

END OF PART B.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

Amended 3/22/13

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086**BASIC APPLICATION INFORMATION****PART C. CERTIFICATION**

All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.

Indicate which parts of Form 2A you have completed and are submitting:

☒ Basic Application Information packet

Supplemental Application Information packet:

☒ Part D (Expanded Effluent Testing Data)☒ Part E (Toxicity Testing: Biomonitoring Data)☒ Part F (Industrial User Discharges and RCRA/CERCLA Wastes)☐ Part G (Combined Sewer Systems)**ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Larry Slattery, Chief, Water Pollution Control BureauSignature Telephone number (703) 228-6820Date signed 2/12/13

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99
OMB Number 2040-0086

Arlington County Water Pollution Control Facility - VA0025143

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Sample results: 7/2008-10/2012

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.											
ANTIMONY	0.035*	ug/L	0.02	lbs	0.035*	ug/L	0.01	lbs	7	EPA 200.8	5 / .07
ARSENIC	0.10*	ug/L	0.05	lbs	0.10*	ug/L	0.02	lbs	7	EPA 200.8	2 / 0.2
BERYLLIUM	0.10*	ug/L	0.05	lbs	0.10*	ug/L	0.02	lbs	7	EPA 200.8	0.5 / 0.2
CADMIUM	0.05*	ug/L	0.02	lbs	0.05*	ug/L	0.01	lbs	7	EPA 200.8	0.5 / 0.1
CHROMIUM	0.08*	ug/L	0.04	lbs	0.08*	ug/L	0.01	lbs	7	EPA 200.8	2 / 0.16
COPPER	4.5	ug/L	2.07	lbs	1.60	ug/L	0.28	lbs	23	EPA 200.8	1 / 0.18
LEAD	0.03*	ug/L	0.01	lbs	0.03*	ug/L	0.01	lbs	7	EPA 200.8	2 / 0.06
MERCURY	0.02*	ug/L	0.01	lbs	0.02*	ug/L	0.00	lbs	7	EPA 245.1	0.5 / 0.04
NICKEL	2.3	ug/L	1.06	lbs	1.5	ug/L	0.27	lbs	7	EPA 200.8	2 / 0.22
SELENIUM	0.8*	ug/L	0.37	lbs	0.76*	ug/L	0.13	lbs	8	EPA 200.8	5 / 1.6
SILVER	0.04*	ug/L	0.02	lbs	0.04*	ug/L	0.01	lbs	7	EPA 200.8	1 / 0.08
THALLIUM	0.045*	ug/L	0.02	lbs	0.045*	ug/L	0.01	lbs	5	EPA 200.8	1 / 0.09
ZINC	30	ug/L	13.79	lbs	24	ug/L	4.24	lbs	7	EPA 200.8	10 / 0.89
CYANIDE	2.0*	ug/L	0.92	lbs	0.69*	ug/L	0.12	lbs	8	EPA 335.3	5 / 1
TOTAL PHENOLIC COMPOUNDS	5.0*	ug/L	2.30	lbs	5.0*	ug/L	0.88	lbs	6	EPA 420.4	10 / 10
HARDNESS (AS CaCO3)	160	mg/L	73525	lbs	132.5	mg/L	23427	lbs	8	EPA 130.2	1 / 0.8

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.

* derived from 1/2 MDL

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
VOLATILE ORGANIC COMPOUNDS.											
ACROLEIN	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	10 / 5
ACRYLONITRILE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
BENZENE	1.0*	ug/L	0.46	lbs	1.0*	ug/L	0.18	lbs	6	EPA 624	5 / 2
BROMOFORM	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
CARBON TETRACHLORIDE	1.0*	ug/L	0.46	lbs	1.0*	ug/L	0.18	lbs	6	EPA 624	5 / 2
CLOROBENZENE	1.0*	ug/L	0.46	lbs	1.0*	ug/L	0.18	lbs	6	EPA 624	5 / 2
CHLORODIBROMO-METHANE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
CHLOROETHANE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
2-CHLORO-ETHYLVINYL ETHER	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
CHLOROFORM	12	ug/L	5.51	lbs	6.5	ug/L	1.15	lbs	6	EPA 624	5 / 5
DICHLOROBROMO-METHANE	6	ug/L	2.76	lbs	3.1	ug/L	0.55	lbs	6	EPA 624	5 / 5
1,1-DICHLOROETHANE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
1,2-DICHLOROETHANE	2.0*	ug/L	0.92	lbs	2.0*	ug/L	0.35	lbs	6	EPA 624	5 / 4
TRANS-1,2-DICHLORO-ETHYLENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
1,1-DICHLOROETHYLENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
1,2-DICHLOROPROPANE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
1,3-DICHLORO-PROPYLENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
ETHYLBENZENE	1.0*	ug/L	0.46	lbs	1.0*	ug/L	0.18	lbs	6	EPA 624	5 / 2
METHYL BROMIDE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
METHYL CHLORIDE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
METHYLENE CHLORIDE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
1,1,2,2-TETRACHLORO-ETHANE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
TETRACHLORO-ETHYLENE	1.0*	ug/L	0.46	lbs	1.0*	ug/L	0.18	lbs	20	EPA 624	5 / 2
TOLUENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99
OMB Number 2040-0086

Arlington County Water Pollution Control Facility - VA0025143

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
✓ 1,1,1-TRICHLOROETHANE	1.0*	ug/L	0.46	lbs	1.0*	ug/L	0.18	lbs	6	EPA 624	5 / 2
✓ 1,1,2-TRICHLOROETHANE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
✓ TRICHLOROETHYLENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5
✓ VINYL CHLORIDE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	6	EPA 624	5 / 5

Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer.

* derived from 1/2 MDL

ACID-EXTRACTABLE COMPOUNDS

✓ P-CHLORO-M-CRESOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 2-CHLOROPHENOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 2,4-DICHLOROPHENOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 2,4-DIMETHYLPHENOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
4,6-DINITRO-O-CRESOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	12.2 / 5
✓ 2,4-DINITROPHENOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	12.2 / 5
✓ 2-NITROPHENOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 4-NITROPHENOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	12.2 / 5
✓ PENTACHLOROPHENOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	12.2 / 5
PHENOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 2,4,6-TRICHLOROPHENOL	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5

Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer.

* derived from 1/2 MDL

BASE-NEUTRAL COMPOUNDS.

✓ ACENAPHTHENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ ACENAPHTHYLENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ ANTHRACENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ BENZIDINE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ BENZO(A)ANTHRACENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ BENZO(A)PYRENE	2.5*	ug/L	1.15	lbs	2.19**	ug/L	0.39	lbs	8	EPA 625	6.1 / 5, 0.10

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
✓ 3,4 BENZO-FLUORANTHENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ BENZO(GH)PERYLENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ BENZO(K)FLUORANTHENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ BIS (2-CHLOROETHOXY) METHANE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
BIS (2-CHLOROETHYL)-ETHER	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
BIS (2-CHLOROISO-PROPYL) ETHER	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ BIS (2-ETHYLHEXYL) PHTHALATE	56.5	ug/L	25.96	lbs	9.25	ug/L	1.64	lbs	8	EPA 525.2	6.1 / 5
✓ 4-BROMOPHENYL PHENYL ETHER	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ BUTYL BENZYL PHTHALATE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 2-CHLORONAPHTHALENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 4-CHLORPHENYL PHENYL ETHER	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ CHRYSENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ DI-N-BUTYL PHTHALATE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ DI-N-OCTYL PHTHALATE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ DIBENZO(A,H) ANTHRACENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 1,2-DICHLOROBENZENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 1,3-DICHLOROBENZENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 1,4-DICHLOROBENZENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 3,3-DICHLOROBENZIDINE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ DIETHYL PHTHALATE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ DIMETHYL PHTHALATE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 2,4-DINITROTOLUENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 2,6-DINITROTOLUENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 1,2-DIPHENYLHYDRAZINE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5

FACILITY NAME AND PERMIT NUMBER:

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Arlington County Water Pollution Control Facility - VA0025143

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
✓ FLUORANTHENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ FLUORENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ HEXACHLOROBENZENE	2.5*	ug/L	1.15	lbs	2.19**	ug/L	0.39	lbs	8	EPA 625	6.1 / 5, 0.1
✓ HEXACHLOROBUTADIENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ HEXACHLOROCYCLO-PENTADIENE	2.5*	ug/L	1.15	lbs	2.22**	ug/L	0.39	lbs	8	EPA 625	6.1 / 5, 0.5
✓ HEXACHLOROETHANE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ INDENO(1,2,3-CD)PYRENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ ISOPHORONE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ NAPHTHALENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ NITROBENZENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ N-NITROSODI-N-PROPYLAMINE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ N-NITROSODI- METHYLAMINE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ N-NITROSODI-PHENYLAMINE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ PHENANTHRENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ PYRENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5
✓ 1,2,4-TRICHLOROBENZENE	2.5*	ug/L	1.15	lbs	2.5*	ug/L	0.44	lbs	7	EPA 625	6.1 / 5

Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.

* derived from 1/2 MDL

Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.

END OF PART D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

** incl. 1 sample by EPA meth. 525.2

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

E.1. Required Tests. Results already submitted: Summary Attached

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

☒ chronic 10 ☐ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: _____ Test number: _____ Test number: _____

a. Test information.

Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			

b. Give toxicity test methods followed.

Manual title			
Edition number and year of publication			
Page number(s)			

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite			
Grab			

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection			
After disinfection			
After dechlorination			

FACILITY NAME AND PERMIT NUMBER:

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Arlington County Water Pollution Control Facility - VA0025143

Test number: _____

Test number: _____

Test number: _____

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:

f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity

Acute toxicity

g. Provide the type of test performed.

Static

Static-renewal

Flow-through

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water

Receiving water

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water

Salt water

j. Give the percentage effluent used for all concentrations in the test series.

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH

Salinity

Temperature

Ammonia

Dissolved oxygen

l. Test Results.

Acute:

Percent survival in 100%
effluent

%

%

%

LC₅₀

95% C.I.

%

%

%

Control percent survival

%

%

%

Other (describe)

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Chronic:

NOEC	%	%	%
IC ₂₅	%	%	%
Control percent survival	%	%	%
Other (describe)			

m. Quality Control/Quality Assurance.

Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?☐ Yes ☒ No

If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.**Dates Submitted:**

Date submitted: _____ (MM/DD/YYYY)	1/11/10	3/12/12	1/10/13
	1/10/11	7/10/12	1/10/13
	1/10/11	7/10/12	
Summary of results: (see instructions)	1/10/12	10/9/12	

See attached summary sheet _____**END OF PART E.****REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.**

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086**SUPPLEMENTAL APPLICATION INFORMATION****PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES**

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

GENERAL INFORMATION:

F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?

☒ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

- a. Number of non-categorical SIUs. 2
- b. Number of CIUs. 0

SIGNIFICANT INDUSTRIAL USER INFORMATION:

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Virginia Hospital Center

Mailing Address: 1701 N. George Mason Drive
Arlington, VA 22205

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Hospital: food service, surgical, laboratory, hazmat storage, imaging

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): surgical services, medical care

Raw material(s): _____

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

47516 gpd (☒ continuous or ☐ intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

47517 gpd (☒ continuous or ☐ intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☒ Yes ☐ No

b. Categorical pretreatment standards ☐ Yes ☒ No

If subject to categorical pretreatment standards, which category and subcategory?

FACILITY NAME AND PERMIT NUMBER:
Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

GENERAL INFORMATION:

F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?

☐ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. _____

b. Number of CIUs. _____

SIGNIFICANT INDUSTRIAL USER INFORMATION:

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Ronald Reagan Washington National Airport

Mailing Address: Metropolitan Washington Airport Authority
Washington, DC 20001

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Food services, deicing, fueling, mechanical maintenance, car & vehicle wash, porta-potty waste, AFFF

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): _____

Raw material(s): Petroleum, glycol, detergents, fats, oils, and greases

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

147,500 gpd (☒ continuous or ☐ intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

147,500 gpd (☒ continuous or ☐ intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☒ Yes ☐ No

b. Categorical pretreatment standards ☐ Yes ☒ No

If subject to categorical pretreatment standards, which category and subcategory?

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086**F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU.** Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?☐ Yes ☒ No

If yes, describe each episode.

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:**F.9. RCRA Waste.** Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe? ☐ Yes ☒ No (go to F.12.)**F.10. Waste Transport.** Method by which RCRA waste is received (check all that apply):☐ Truck ☐ Rail ☐ Dedicated Pipe**F.11. Waste Description.** Give EPA hazardous waste number and amount (volume or mass, specify units).EPA Hazardous Waste NumberAmountUnits**CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:****F.12. Remediation Waste.** Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?☒ Yes (complete F.13 through F.15.)☐ No

Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.

F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA or other remedial waste originates (or is expected to originate in the next five years).Blue Ridge Partners, Inc., 2717 N. Pershing Drive, Arlington, VA 22201 (Permit No. B-0402.1)Former commercial tenant at site: Pershing Auto CareGroundwater remediation by pumping; treatment; and discharging to sanitary sewer**F.14. Pollutants.** List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).BTEX (action level ≥ 0.35 mg/L for Benzene); TPH (action level ≥ 6 mg/L)Flow approximately 2500 gpd**F.15. Waste Treatment.**

a. Is this waste treated (or will it be treated) prior to entering the treatment works?

☒ Yes ☐ No

If yes, describe the treatment (provide information about the removal efficiency):

Coalescing oil/water separator; low-profile air stripper; bag filter; GAC cylinders. Removal efficiencies have been >99%.

b. Is the discharge (or will the discharge be) continuous or intermittent?

☒ Continuous☐ Intermittent

If intermittent, describe discharge schedule.

END OF PART F.**REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086**F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU.** Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?☐ Yes ☒ No

If yes, describe each episode.

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:**F.9. RCRA Waste.** Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe? ☐ Yes ☐ No (go to F.12.)**F.10. Waste Transport.** Method by which RCRA waste is received (check all that apply):☐ Truck☐ Rail☐ Dedicated Pipe**F.11. Waste Description.** Give EPA hazardous waste number and amount (volume or mass, specify units).EPA Hazardous Waste NumberAmountUnits**CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:****F.12. Remediation Waste.** Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?☐ Yes (complete F.13 through F.15.)☐ No

Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.

F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA or other remedial waste originates (or is expected to originate in the next five years).(Old Rosenthal Chevrolet) 3400 Columbia Pike, Arlington, VA 22204 (10/22/12 Discharge Authorization Letter)
Groundwater remediation by pumping; treatment; and discharging to sanitary sewer. Anticipated discharge
duration through April 30, 2013.**F.14. Pollutants.** List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).BTEX (action level ≥ 0.35 mg/L for Benzene); TPH (action level ≥ 6 mg/L)
Flow $\leq 72,000$ gpd**F.15. Waste Treatment.**

a. Is this waste treated (or will it be treated) prior to entering the treatment works?

☒ Yes ☐ No

If yes, describe the treatment (provide information about the removal efficiency):

Frac tank clarification; filtration; GAC cylinders. Removal efficiencies have been $>99\%$.

b. Is the discharge (or will the discharge be) continuous or intermittent?

☒ Continuous☐ Intermittent

If intermittent, describe discharge schedule.

END OF PART F.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Arlington County Water Pollution Control Facility - VA0025143

Form Approved 1/14/99
OMB Number 2040-0086**SUPPLEMENTAL APPLICATION INFORMATION****PART G. COMBINED SEWER SYSTEMS**

N/A

If the treatment works has a combined sewer system, complete Part G.**G.1. System Map.** Provide a map indicating the following: (may be included with Basic Application Information)

- a. All CSO discharge points.
- b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
- c. Waters that support threatened and endangered species potentially affected by CSOs.

G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:

- a. Locations of major sewer trunk lines, both combined and separate sanitary.
- b. Locations of points where separate sanitary sewers feed into the combined sewer system.
- c. Locations of in-line and off-line storage structures.
- d. Locations of flow-regulating devices.
- e. Locations of pump stations.

CSO OUTFALLS:**Complete questions G.3 through G.6 once for each CSO discharge point.****G.3. Description of Outfall.**

- a. Outfall number _____
- b. Location _____
(City or town, if applicable) (Zip Code)

(County) (State)

(Latitude) (Longitude)
- c. Distance from shore (if applicable) _____ ft.
- d. Depth below surface (if applicable) _____ ft.
- e. Which of the following were monitored during the last year for this CSO?
____ Rainfall ____ CSO pollutant concentrations ____ CSO frequency
____ CSO flow volume ____ Receiving water quality
- f. How many storm events were monitored during the last year? _____

G.4. CSO Events.

- a. Give the number of CSO events in the last year.
_____ events (____ actual or ____ approx.)
- b. Give the average duration per CSO event.
_____ hours (____ actual or ____ approx.)

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- c. Give the average volume per CSO event.
_____ million gallons (_____ actual or _____ approx.)
- d. Give the minimum rainfall that caused a CSO event in the last year.
_____ inches of rainfall

G.5. Description of Receiving Waters.

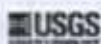
- a. Name of receiving water: _____
- b. Name of watershed/river/stream system: _____
- United States Soil Conservation Service 14-digit watershed code (if known): _____
- c. Name of State Management/River Basin: _____
- United States Geological Survey 8-digit hydrologic cataloging unit code (if known): _____

G.6. CSO Operations.

Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).

END OF PART G.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

Additional information, if provided, will appear on the following pages.



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



ALEXANDRIA QUADRANGLE
VIRGINIA (SECTION 19) - COLLEEN, MARYLAND
1:50,000 SCALE



Arlington County Water Pollution
Control Facility
VPDES Permit No. VA0025143
1 of 2

Produced by the United States Geological Survey
Topographic Map of the Potomac River
Scale 1:50,000
Date 1987
Projection NAD 83
Datum NAD 83
Units Meter



Copyright © 1987
U.S. Geological Survey
All rights reserved. No part of this publication may be reproduced without permission in writing from the U.S. Geological Survey.

Legend	
Blue line	Major road
Red line	Minor road
Black line	Boundary
Green line	Water
Blue line	Stream
Black line	Setback
Black line	Setback
Black line	Setback

Legend	
Blue line	Major road
Red line	Minor road
Black line	Boundary
Green line	Water
Blue line	Stream
Black line	Setback
Black line	Setback
Black line	Setback

120

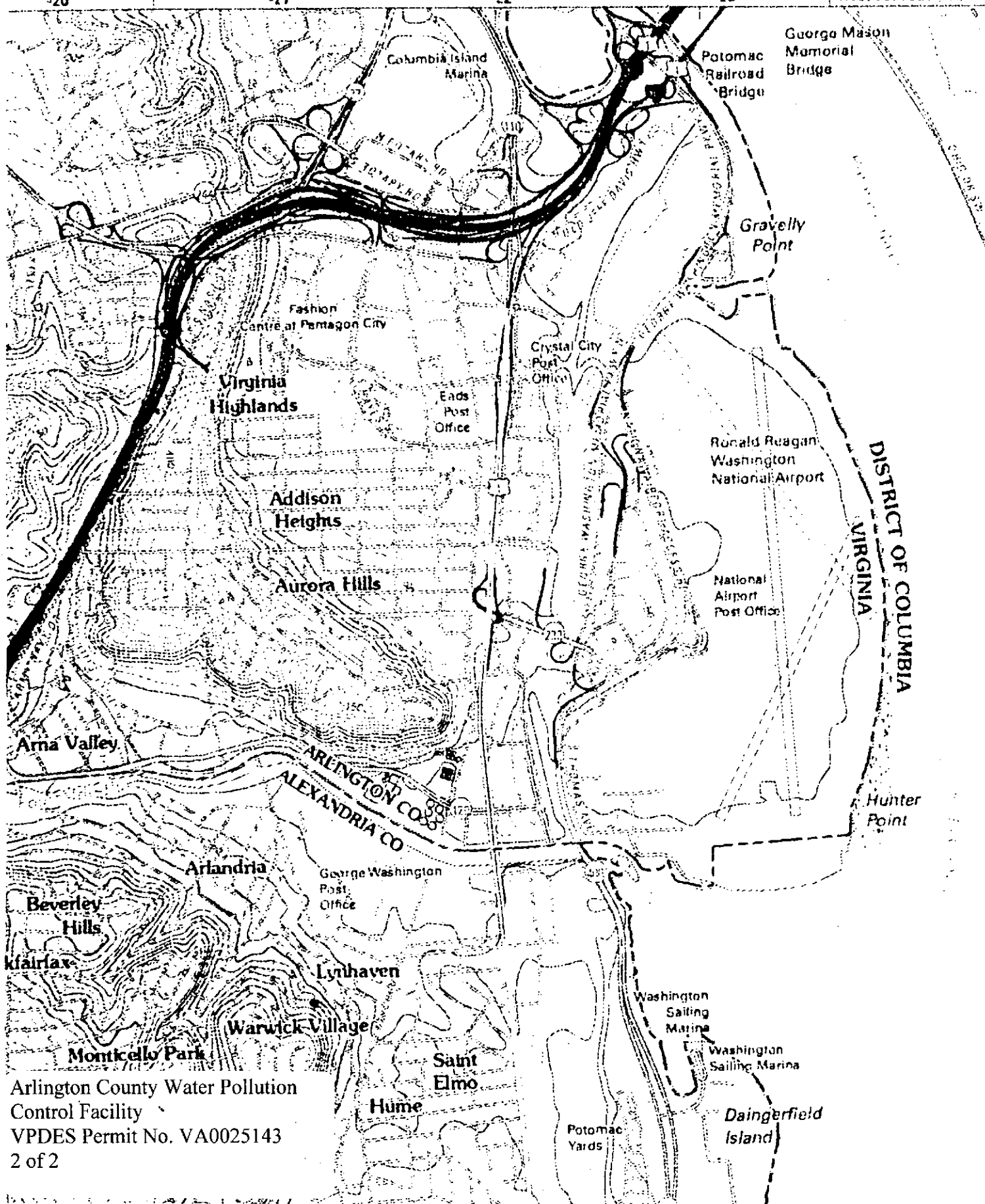
121

122


2'30"

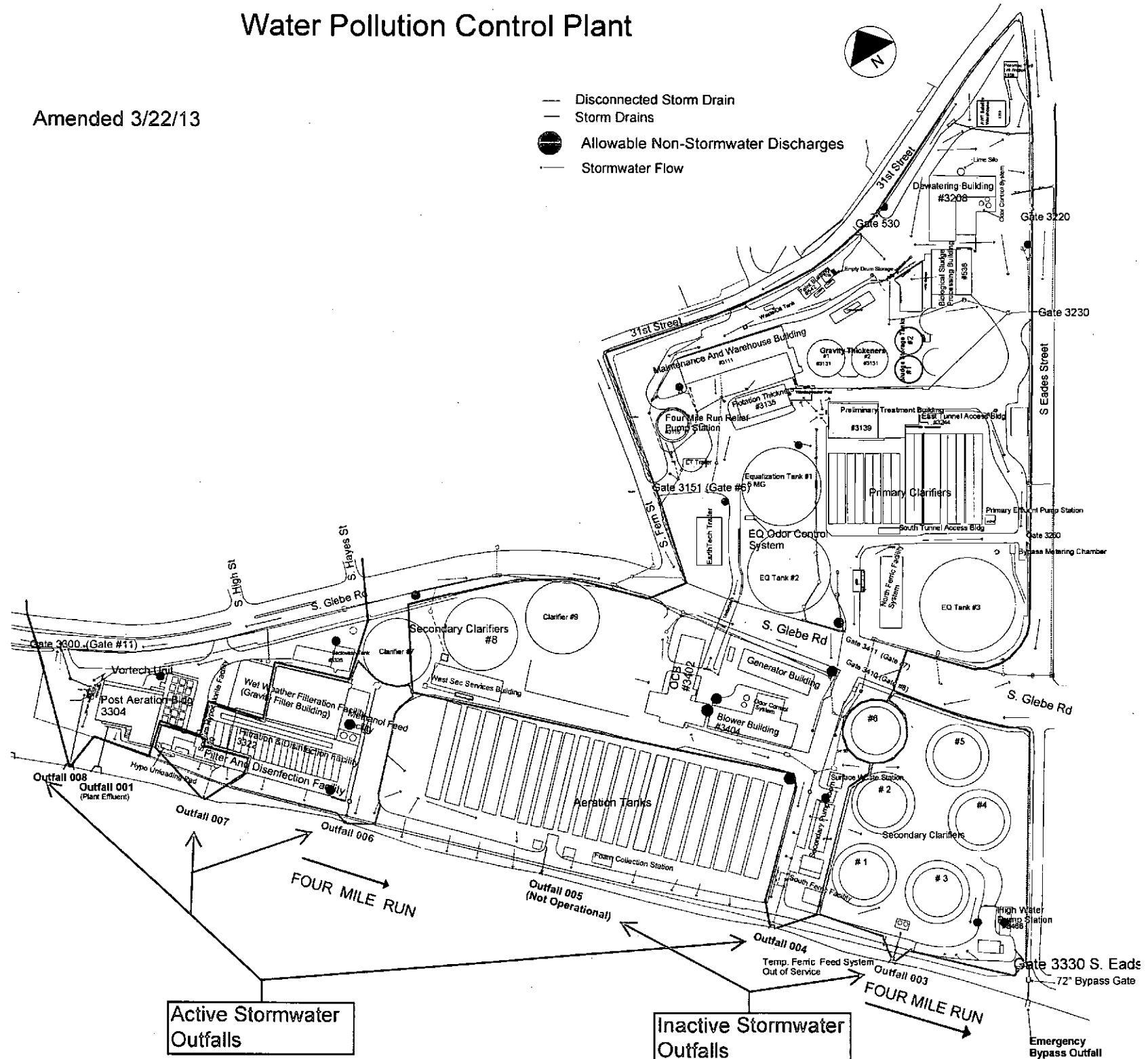
123

11000000 FEET (VA)

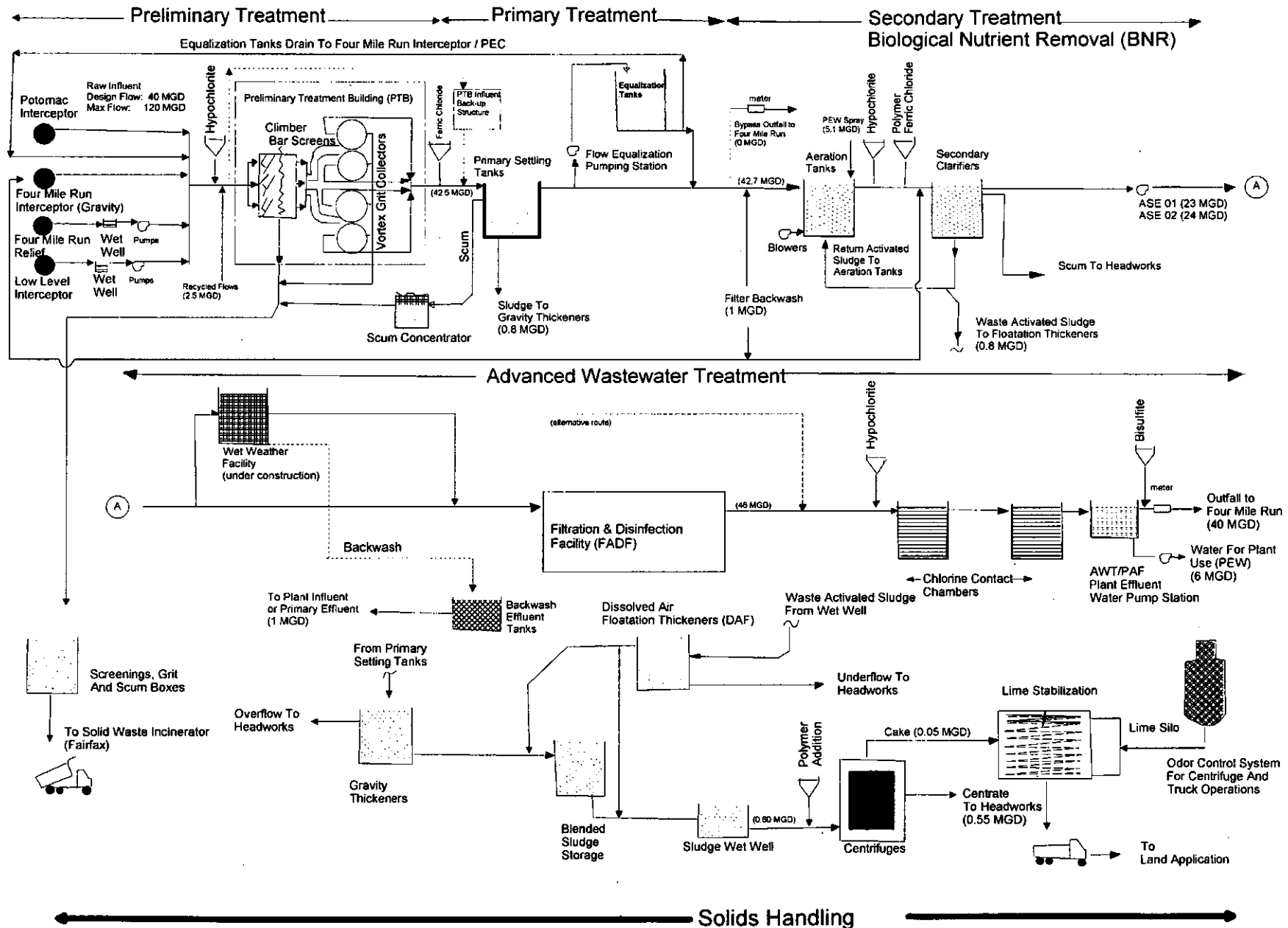


Arlington County Water Pollution
Control Facility
VPDES Permit No. VA0025143
2 of 2

--- Disconnected Storm Drain
 --- Storm Drains
 Allowable Non-Stormwater Discharges
 *--- Stormwater Flow



Arlington County Water Pollution Control Plant Unit Process Flow Diagram



Arlington County Water Pollution Control Plant

VA0025143

Whole Effluent Toxicity Summary

Date	Test Organism	48h LC ₅₀	IC ₂₅	NOEC	% SURV	TU _c	Comment/Notes
11/30/2009	chronic <i>C. dubia</i>	>100	>100	100 s g	100	1.00	
	chronic <i>P. promelas</i>	>100	>100	100 s g	100	1.00	
11/01/2010	chronic <i>P. promelas</i>	>100	>100	100 s g	100	1.00	
12/06/2010	chronic <i>C. dubia</i>	>100	>100	100 s g	100	1.00	
08/22/2011	chronic <i>P. promelas</i>	>100	>100	100 s g	100	1.00	
	chronic <i>C. dubia</i>	>100	>100	100 s g	100	1.00	
10/31/2011	chronic <i>P. promelas</i>	>100	>100	100 s g	100	1.00	
	chronic <i>C. dubia</i>	>100	>100	100 s g	100	1.00	
02/27/2012	chronic <i>C. dubia</i>	>100	>100	100 s g	100	1.00	
02/27/2012	chronic <i>P. promelas</i>	>100	>100	100 s g	100	1.00	
05/14/2012	chronic <i>C. dubia</i>	>100	48.4	25 s g	40	4.00	Suspect petroleum hydrocarbons from street stormwater runoff in 3rd series sample
05/14/2012	chronic <i>P. promelas</i>	>100	>100	50 s g	98	2.00	
06/12/2012	chronic <i>C. dubia</i>	>100	>100	100 s g	100	1.00	
06/12/2012	chronic <i>P. promelas</i>	>100	>100	100 s g	100	1.00	
07/16/2012	chronic <i>C. dubia</i>	>100	>100	100 s g	100	1.00	
07/16/2012	chronic <i>P. promelas</i>	>100	>100	100 s g	98	1.00	
10/22/2012	chronic <i>C. dubia</i>	>100	>100	100 s g	100	1.00	
10/22/2012	chronic <i>P. promelas</i>	>100	>100	100 s g	100	1.00	

For permit to be issued in 2013

1. Entity to whom the permit is to be issued: Arlington County Board

Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.

2. Is this facility located within city or town boundaries? Yes ☒ No ☐

3. Provide the tax map parcel number for the land where the discharge is located. 37-036-002

4. For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? 0

5. What is the design average effluent flow of this facility? 40 MGD

For industrial facilities, provide the max. 30-day average production level, include units:

N/A

In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes ☐ No ☒

If "Yes", please identify the other flow tiers (in MGD) or production levels:

Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?

6. Nature of operations generating wastewater:

Centrate from sludge centrifuges; backwashing tertiary filters; laboratory waste

86 % of flow from domestic connections/sources

Number of private residences to be served by the treatment works: 34,715

5 % of flow from non-domestic connections/sources

7. Mode of discharge: ☒ Continuous ☐ Intermittent ☐ Seasonal

Describe frequency and duration of intermittent or seasonal discharges:

8. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:

☒ Permanent stream, never dry

☐ Intermittent stream, usually flowing, sometimes dry

☐ Ephemeral stream, wet-weather flow, often dry

☐ Effluent-dependent stream, usually or always dry without effluent flow

☐ Lake or pond at or below the discharge point

☐ Other: _____

9. Approval Date(s):

O & M Manual 11/22/2011

Sludge/Solids Management Plan 04/15/2008

Have there been any changes in your operations or procedures since the above approval dates? Yes* ☒ No ☐

* New Standby Generator Facility Operational Procedures dated June 2012; otherwise, O&M Manuals and Sludge Management Plans are current until new Wet Weather Facility is brought online in July 2013.

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1. All applicants must complete Section A (General Information).

2. Will this facility generate sewage sludge? ☒ Yes ☐ No

Will this facility derive a material from sewage sludge? ☒ Yes ☐ No

If you answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material Derived From Sewage Sludge).

3. Will this facility apply sewage sludge to the land? ☐ Yes ☒ No

Will sewage sludge from this facility be applied to the land? ☒ Yes ☐ No

If you answered No to both questions above, skip Section C.

If you answered Yes to either, answer the following three questions:

a. Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions?
☐ Yes ☒ No

b. Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land? ☐ Yes ☒ No

c. Will sewage sludge from this facility be sent to another facility for treatment or blending? ☐ Yes ☒ No

If you answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).

If you answered Yes to a, b or c, skip Section C.

4. Do you own or operate a surface disposal site? ☐ Yes ☒ No

If Yes, complete Section D (Surface Disposal).

SECTION A. GENERAL INFORMATION

All applicants must complete this section.

1. Facility Information.

- a. Facility name: Arlington County Water Pollution Control Facility
- b. Contact person: Larry Slattery
Title: Bureau Chief
Phone: (703) 228-6877
- c. Mailing address:
Street or P.O. Box: 3402 S. Glebe Road
City or Town: Arlington State: VA Zip: 22202
- d. Facility location:
Street or Route #: 3402 S. Glebe Road
County: Arlington
City or Town: Arlington State: VA Zip: 22202
- e. Is this facility a Class I sludge management facility? X Yes ___ No
- f. Facility design flow rate: 40 mgd
- g. Total population served: 303,600
- h. Indicate the type of facility:
X Publicly owned treatment works (POTW)
___ Privately owned treatment works
___ Federally owned treatment works
___ Blending or treatment operation
___ Surface disposal site
___ Other (describe):

2. Applicant Information. If the applicant is different from the above, provide the following:

- a. Applicant name: Arlington County Board
- b. Mailing address:
Street or P.O. Box: #1 Courthouse Plaza
City or Town: Arlington State: VA Zip: 22201
- c. Contact person: Carl Newby
Title: Deputy Director, Department of Environmental Services
Phone: (703) 228-6494
- d. Is the applicant the owner or operator (or both) of this facility?
X owner ___ operator
- e. Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)
X facility ___ applicant

3. Permit Information.

- a. Facility's VPDES permit number (if applicable): VA0025143
- b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices:
Permit Number: _____ Type of Permit: _____

4. Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this facility occur in Indian Country? ___ Yes X No If yes, describe:

5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
- Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
 - Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.
7. Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor? ☒ Yes ☐ No
If yes, provide the following for each contractor (attach additional pages if necessary).
Name: Synagro Technologies, Inc.
Mailing address:
Street or P.O. Box: 10647 Tidewater Trail
City or Town: Champlain State: VA Zip: 22438
Phone: (804) 443-2170 x203
Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge: **See attached sheet.**
- If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).
8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic	2.55	07/2008-09/2012	SW-846 6010C	1.0
Cadmium	0.85	07/2008-09/2012	SW-846 6010C	1.0
Chromium	50.17	07/2008-09/2012	SW-846 6010C	5.0
Copper	153.74	07/2008-09/2012	SW-846 6010C	1.0
Lead	27.28	07/2008-09/2012	SW-846 6010C	5.0
Mercury	0.64	07/2008-09/2012	SW-846 7471B	0.4
Molybdenum	7.59	07/2008-09/2012	SW-846 6010C	5.0
Nickel	9.35	07/2008-09/2012	SW-846 6010C	5.0
Selenium	1.80	07/2008-09/2012	SW-846 6010C	1.0
Zinc	375.55	07/2008-09/2012	SW-846 6010C	1.0

9. Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:
- ☒ Section A (General Information)
☒ Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
☐ Section C (Land Application of Bulk Sewage Sludge)
☐ Section D (Surface Disposal)

FACILITY NAME: Arlington County Water Pollution Control Facility

VPDES PERMIT NUMBER: VA0025143

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Lawrence A. Slattery, Water Pollution Control Bureau Chief

Signature  Date Signed 2/12/13

Telephone number (703) 228-6877

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

**SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION
OF A MATERIAL DERIVED FROM SEWAGE SLUDGE**

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1. Amount Generated On Site.
Total dry metric tons per 365-day period generated at your facility: 11,680 dry metric tons
2. Amount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or disposal, provide the following information for each facility from which sewage sludge is received. If you receive sewage sludge from more than one facility, attach additional pages as necessary.
 - a. Facility name: N/A
 - b. Contact Person:
Title:
Phone ()
 - c. Mailing address:
Street or P.O. Box:
City or Town: _____ State: _____ Zip: _____
 - d. Facility Address:
(not P.O. Box)
 - e. Total dry metric tons per 365-day period received from this facility: _____ dry metric tons
 - f. Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:
3. Treatment Provided at Your Facility.
 - a. Which class of pathogen reduction is achieved for the sewage sludge at your facility?
Class A ☒ Class B ☐ Neither or unknown
 - b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge: Raise pH to 12 for 2 hours by Lime Stabilization
 - c. Which vector attraction reduction option is met for the sewage sludge at your facility?
☐ Option 1 (Minimum 38 percent reduction in volatile solids)
☐ Option 2 (Anaerobic process, with bench-scale demonstration)
☐ Option 3 (Aerobic process, with bench-scale demonstration)
☐ Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
☐ Option 5 (Aerobic processes plus raised temperature)
☒ Option 6 (Raise pH to 12 and retain at 11.5)
☐ Option 7 (75 percent solids with no unstabilized solids)
☐ Option 8 (90 percent solids with unstabilized solids)
☐ None or unknown
 - d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge: Raise pH to 12 and retain at 11.5 for 24 hours by Lime Stabilization
 - e. Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above: If biosolids cannot be land-applied for any reason, they may be placed in a municipal solid waste landfill
4. Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One of Vector Attraction Reduction Options 1-8 (EQ Sludge). N/A
(If sewage sludge from your facility does not meet all of these criteria, skip Question 4.)
 - a. Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:
_____ dry metric tons
 - b. Is sewage sludge subject to this section placed in bags or other containers for sale or give-away?
☐ Yes ☐ No

5. Sale or Give-Away in a Bag or Other Container for Application to the Land. N/A

(Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.)

- a. Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: _____ dry metric tons
- b. Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.

6. Shipment Off Site for Treatment or Blending.

(Complete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.)

- a. Receiving facility name: N/A
- b. Facility contact:
Title:
Phone: ()
- c. Mailing address:
Street or P.O. Box:
City or Town: _____ State: _____ Zip: _____
- d. Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: _____ dry metric tons
- e. List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices:
Permit Number: _____ Type of Permit: _____
- f. Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? Yes No
Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?
Class A Class B Neither or unknown
Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge:
- g. Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge? Yes No
Which vector attraction reduction option is met for the sewage sludge at the receiving facility?
Option 1 (Minimum 38 percent reduction in volatile solids)
Option 2 (Anaerobic process, with bench-scale demonstration)
Option 3 (Aerobic process, with bench-scale demonstration)
Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
Option 5 (Aerobic processes plus raised temperature)
Option 6 (Raise pH to 12 and retain at 11.5)
Option 7 (75 percent solids with no unstabilized solids)
Option 8 (90 percent solids with unstabilized solids)
None unknown
Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge:
- h. Does the receiving facility provide any additional treatment or blending not identified in f or g above?
Yes No
If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:
- i. If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.

- j. Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? ☐ Yes ☐ No
If yes, provide a copy of all labels or notices that accompany the product being sold or given away.
- k. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? ☐ Yes ☐ No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.
Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported.

7. Land Application of Bulk Sewage Sludge.

(Complete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6; complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)

- a. Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: 11,680
dry metric tons.
- b. Do you identify all land application sites in Section C of this application? ☒ Yes ☐ No *by Synagro
If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).
- c. Are any land application sites located in States other than Virginia? ☐ Yes ☒ No
If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.
- d. Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV). See Attachment

8. Surface Disposal. N/A

(Complete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)

- a. Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: _____ dry metric tons
- b. Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?
☐ Yes ☐ No
If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.
- c. Site name or number:
- d. Contact person:
Title:
Phone: ()
Contact is: ☐ Site Owner ☐ Site operator
- e. Mailing address.
Street or P.O. Box:
City or Town: _____ State: _____ Zip: _____
- f. Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: _____ dry metric tons
- g. List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site:

<u>Permit Number:</u>	<u>Type of Permit:</u>
_____	_____
_____	_____

9. Incineration. N/A

(Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)

- a. Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator: _____ dry metric tons

- b. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
___ Yes ___ No
If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
- c. Incinerator name or number:
- d. Contact person:
Title:
Phone: ()
Contact is: ___ Incinerator Owner ___ Incinerator Operator
- e. Mailing address.
Street or P.O. Box:
City or Town: _____ State: _____ Zip: _____
- f. Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge incinerator: _____ dry metric tons
- g. List on this form or an attachment the numbers of all other federal, state or local permits that regulate the firing of sewage sludge at this incinerator:
Permit Number: _____ Type of Permit: _____

10. Disposal in a Municipal Solid Waste Landfill.

(Complete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information for each municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.)

- a. Landfill name: Atlantic Waste Disposal
- b. Contact person: Pam Pfeiffer
Title: Administrator
Phone: (804) 230-8299
Contact is: ___ Landfill Owner X Landfill Operator
- c. Mailing address.
Street or P.O. Box: 1405 Gordon Ave
City or Town: Richmond State: VA Zip: 23224
- d. Landfill location.
Street or Route #: 3474 Atlantic Lane
County: Sussex
City or Town: Waverly State: VA Zip: 23890
- e. Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
0 dry metric tons
- f. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the operation of this municipal solid waste landfill:
Permit Number: VA-562 Profile# 101848VA Type of Permit: Municipal POTW Sludge
- g. Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
X Yes ___ No
- h. Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq.? X Yes ___ No
- i. Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill be watertight and covered? X Yes ___ No
Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week and time of the day sewage sludge will be transported. Map attached - transportation is emergency only; weekdays 0700-1900 is anticipated

SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or

The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or

You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied.

1. Identification of Land Application Site.

a. Site name or number: Synagro Technologies, Inc. provides reports

b. Site location (Complete i and ii)

i. Street or Route#:

County:

City or Town: _____ State: _____ Zip: _____

ii. Latitude: _____ Longitude: _____

Method of latitude/longitude determination

_____ USGS map _____ Filed survey _____ Other

c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.

2. Owner Information.

a. Are you the owner of this land application site? Yes No

b. If no, provide the following information about the owner:

Name:

Street or P.O. Box:

City or Town: _____ State: _____ Zip: _____

Phone: ()

3. Applier Information:

a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site? Yes X No

b. If no, provide the following information for the person who applies the sewage sludge:

Name: Synagro Technologies, Inc.

Street or P.O. Box: 10647 Tidewater Trail

City or Town: Champlain State: VA Zip: 22438

Phone: (804) 443-2170 x203

c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site:

Permit Number: _____ Type of Permit: _____

See Attachment _____

4. Site Type. Identify the type of land application site from among the following:

X Agricultural land _____ Reclamation site X Forest

_____ Public contact site _____ Other. Describe

5. Vector Attraction Reduction.

Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site?

Yes X No If yes, answer a and b.

a. Indicate which vector attraction reduction option is met:

_____ Option 9 (Injection below land surface)

_____ Option 10 (Incorporation into soil within 6 hours)

b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site to reduce the vector attraction properties of sewage sludge:

8. Storage Requirements. **N/A**

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
 - 1) Water wells, abandoned or operating
 - 2) Surface waters
 - 3) Springs
 - 4) Public water supply(s)
 - 5) Sinkholes
 - 6) Underground and/or surface mines
 - 7) Mine pool (or other) surface water discharge points
 - 8) Mining spoil piles and mine dumps
 - 9) Quarry(s)
 - 10) Sand and gravel pits
 - 11) Gas and oil wells
 - 12) Diversion ditch(s)
 - 13) Agricultural drainage ditch(s)
 - 14) Occupied dwellings, including industrial and commercial establishments
 - 15) Landfills or dumps
 - 16) Other unlined impoundments
 - 17) Septic tanks and drainfields
 - 18) Injection wells
 - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
 - 1) Maximum and minimum percent slopes
 - 2) Depressions on the site that may collect water
 - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
 - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.

9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application. **N/A**

10. Landowner Agreement Forms. Provide a properly completed **Land Application Agreement – Biosolids** Form and necessary attachments (attached at end of VPDES Sewage Sludge Permit Application Form) for each landowner if sewage sludge is to be applied onto land not owned by the applicant. **N/A**

11. Ground Water Monitoring.

Are any ground water monitoring data available for this land application site? ☐ Yes ☐ No

If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data. **N/A**

12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period) N/A

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service
Virginia Field Office
6669 Short Lane
Gloucester, VA 23061
TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

- d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)
Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.
 - 1) Soil symbol
 - 2) Soil series, textural phase and slope range
 - 3) Depth to seasonal high water table
 - 4) Depth to bedrock
 - 5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site. Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - 1). Soil symbol
 - 2). Soil series, textural phase and slope range
 - 3). Depth to seasonal high water table
 - 4). Depth to bedrock
 - 5). Estimated soil productivity group (for the proposed crop rotation)

- f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.
- Soil Organic Matter (%)
 - Soil pH (std. units)
 - Cation Exchange Capacity (meq/100g)
 - Total Nitrogen (ppm)
 - Organic Nitrogen (ppm)
 - Ammonia Nitrogen (ppm)
 - Nitrate Nitrogen (ppm)
 - Available Phosphorus (ppm)
 - Exchangeable Potassium (mg/100g)
 - Exchangeable Sodium (mg/100g)
 - Exchangeable Calcium (mg/100g)
 - Exchangeable Magnesium (mg/100g)
 - Arsenic (ppm)
 - Cadmium (ppm)
 - Copper (ppm)
 - Lead (ppm)
 - Mercury (ppm)
 - Molybdenum (ppm)
 - Nickel (ppm)
 - Selenium (ppm)
 - Zinc (ppm)
 - Manganese (ppm)
 - Particle Size Analysis or
USDA Textural Estimate (%)
- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit. N/A

1. Information on Active Sewage Sludge Units.

- a. Unit name or number:
- b. Unit location
- i. Street or Route#:
County:
City or Town: _____ State: _____ Zip: _____
- ii. Latitude: _____ Longitude: _____
Method of latitude/longitude determination
_____ USGS map _____ Filed survey _____ Other _____
- c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.
- d. Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:
_____ dry metric tons.
- e. Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:
_____ dry metric tons.
- f. Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of 1×10^{-7} cm/sec? ☐ Yes ☐ No If yes, describe the liner or attach a description.
- g. Does the active sewage sludge unit have a leachate collection system? ☐ Yes ☐ No
If yes, describe the leachate collection system or attach a description. Also, describe the method used for leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:
- h. If you answered no to either f or g, answer the following:
Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site? ☐ Yes ☐ No If yes, provide the actual distance in meters:
- i. Remaining capacity of active sewage sludge unit, in dry metric tons: _____ dry metric tons
Anticipated closure date for active sewage sludge unit, if known: _____ (MM/DD/YYYY)
Provide with this application a copy of any closure plan developed for this active sewage sludge unit.

2. Sewage Sludge from Other Facilities.

Is sewage sludge sent to this active sewage sludge unit from any facilities other than yours? ☐ Yes ☐ No
If yes, provide the following information for each such facility, attach additional sheets as necessary.

- a. Facility name:
- b. Facility contact:
Title:
Phone: () _____
- c. Mailing address.
Street or P.O. Box:
City or Town: _____ State: _____ Zip: _____
- d. List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the facility's sewage sludge management practices:
Permit Number: _____ Type of Permit: _____

- e. Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?
☐ Class A ☐ Class B ☐ Neither or unknown
- f. Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to reduce pathogens in sewage sludge:

- g. Which vector attraction reduction option is achieved before sewage sludge leaves the other facility?
- ☐ Option 1 (Minimum 38 percent reduction in volatile solids)
 - ☐ Option 2 (Anaerobic process, with bench-scale demonstration)
 - ☐ Option 3 (Aerobic process, with bench-scale demonstration)
 - ☐ Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
 - ☐ Option 5 (Aerobic processes plus raised temperature)
 - ☐ Option 6 (Raise pH to 12 and retain at 11.5)
 - ☐ Option 7 (75 percent solids with no unstabilized solids)
 - ☐ Option 8 (90 percent solids with unstabilized solids)
 - ☐ None or unknown
- h. Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge:
- i. Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above:

3. Vector Attraction Reduction.

- a. Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?
- ☐ Option 9 (Injection below land surface)
 - ☐ Option 10 (Incorporation into soil within 6 hours)
 - ☐ Option 11 (Covering active sewage sludge unit daily)
- b. Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge:

4. Ground Water Monitoring.

- a. Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit? ☐ Yes ☐ No
- If yes, provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.
- b. Has a ground water monitoring program been prepared for this active sewage sludge unit?
- ☐ Yes ☐ No If yes, submit a copy of the ground water monitoring program with this application.
- c. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated? ☐ Yes ☐ No
- If yes, submit a copy of the certification with this application.

5. Site-Specific Limits.

Are you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?

☐ Yes ☐ No If yes, submit information to support the request for site-specific pollutant limits with this application.

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

LAND APPLICATION AGREEMENT - BIOSOLIDS

A. This land application agreement is made on _____ between _____ referred to here as "Landowner", and _____, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in _____, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply biosolids on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of biosolids for the purpose of determining compliance with regulatory requirements applicable to such application.

Landowner – Printed Name, Title

Signature

Mailing Address

Permittee:

_____, the Permittee, agrees to apply biosolids on the Landowner's land in the manner authorized by the VPDES Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the documents assigning signatory authority to the person signing for landowner above. I will make a copy of this document available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Permittee – Authorized Representative
Printed Name

Signature

Mailing Address

LAND APPLICATION AGREEMENT - BIOSOLIDS

Permittee: _____ County or City: _____

Landowner: _____

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature_____
Date

LAND APPLICATION AGREEMENT - BIOSOLIDS

City/County: _____

Supplement A: Additional Land Application Sites

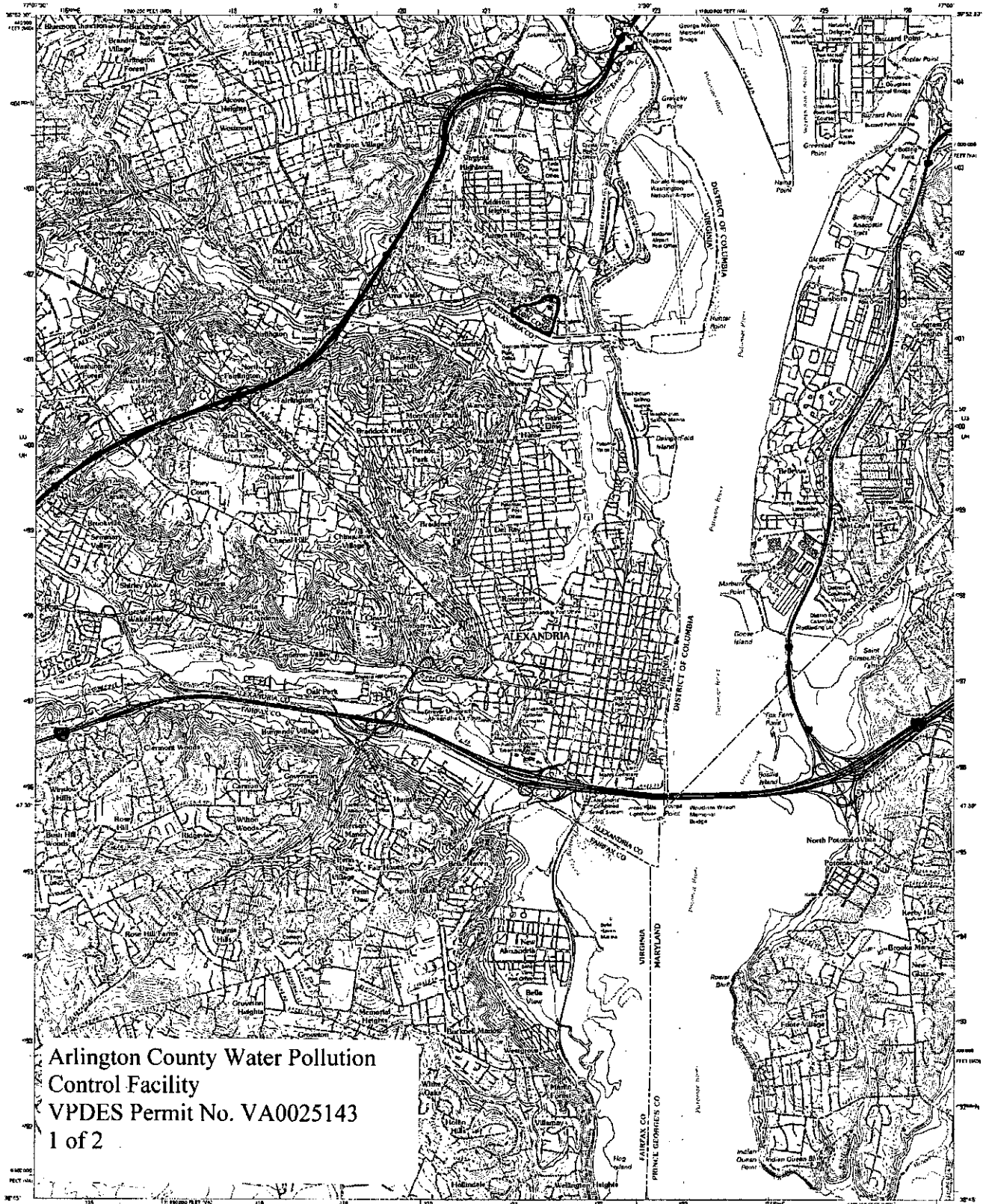
Landowner – Printed Name	Signature	Mailing Address
---------------------------------	------------------	------------------------



U.S. DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

The National Map
US Topo

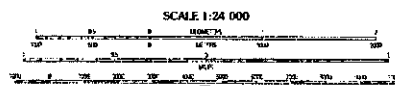
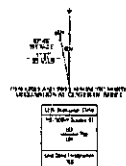
ALEXANDRIA QUADRANGLE
VIRGINIA DISTRICT OF COLUMBIA-MARYLAND
7.5-MINUTE SERIES



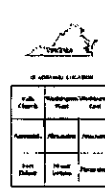
Arlington County Water Pollution
Control Facility
VPDES Permit No. VA0025143
1 of 2

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84), Projection and
1983 datum and datum transformation. Zone 18
18 UTM datum. Virginia Coordinate System of 1982 (VCS)
1982, North Carolina System of 1982

Source: USGS, 2008
Data: 2008-2010 Topo
Map: 2010
Projection: UTM
Datum: NAD83
Zone: 18
Scale: 1:24,000



CONTour INTERVAL 10 FEET
NORTH AMERICAN DATUM OF 1983
This map was produced in accordance with the
of the USGS ID Topo Product Standard
A variation of the product is shown in the USGS ID



Legend
Roads
Water
Other

ALEXANDRIA, VA-DC-MD
2011

120

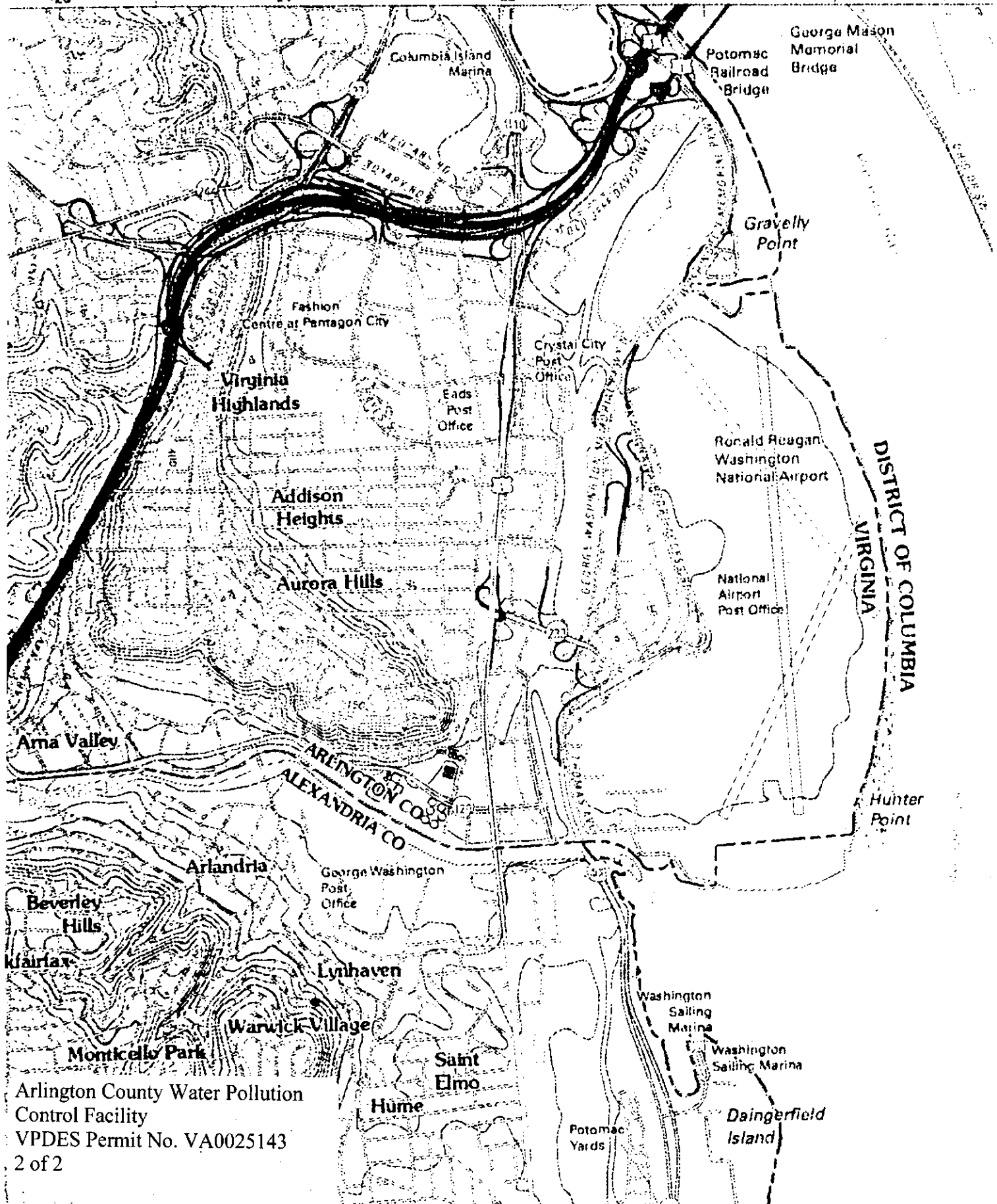
121

122

2'30"

123

11000000 FEET (VA)

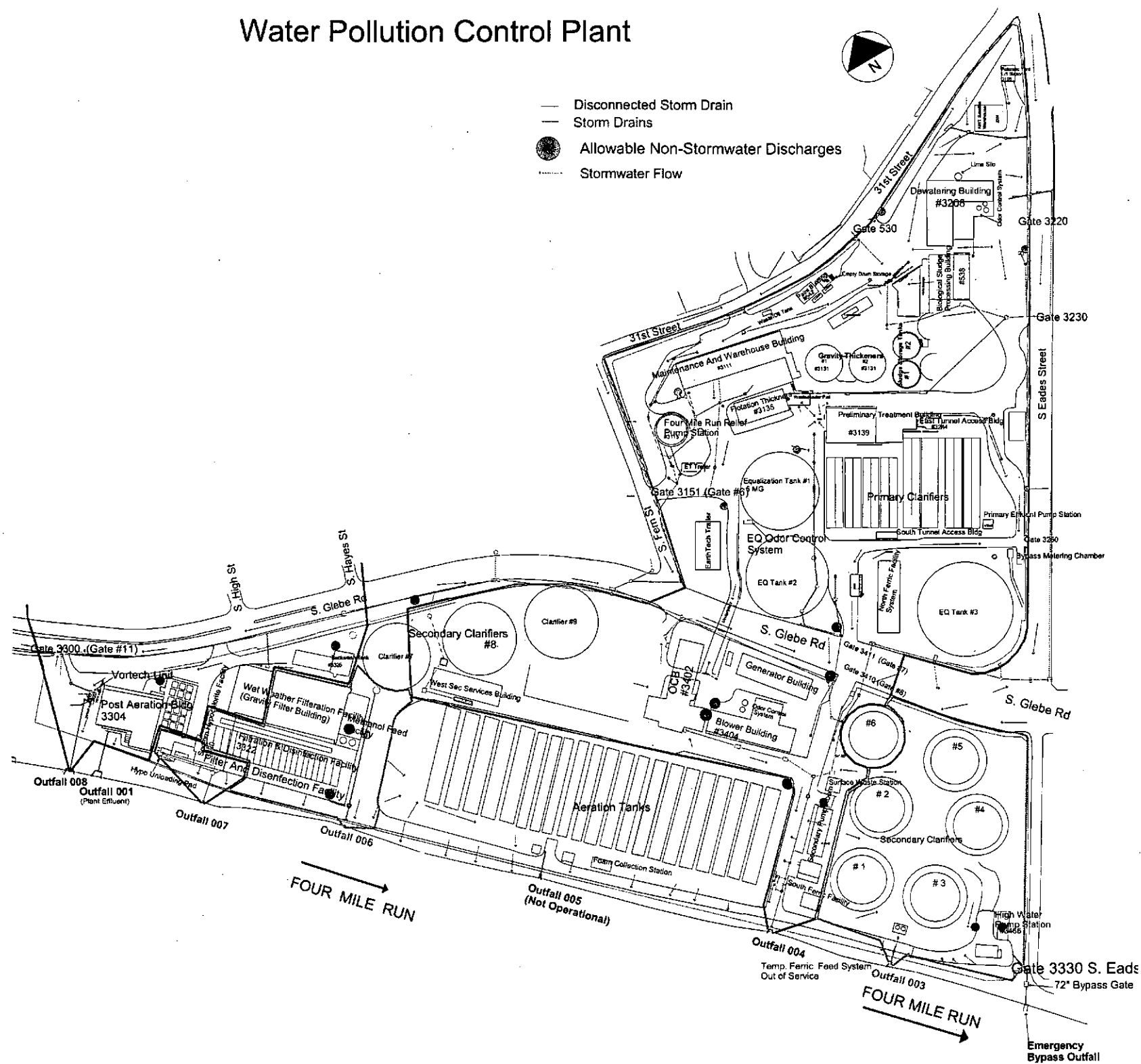


Arlington County Water Pollution
Control Facility

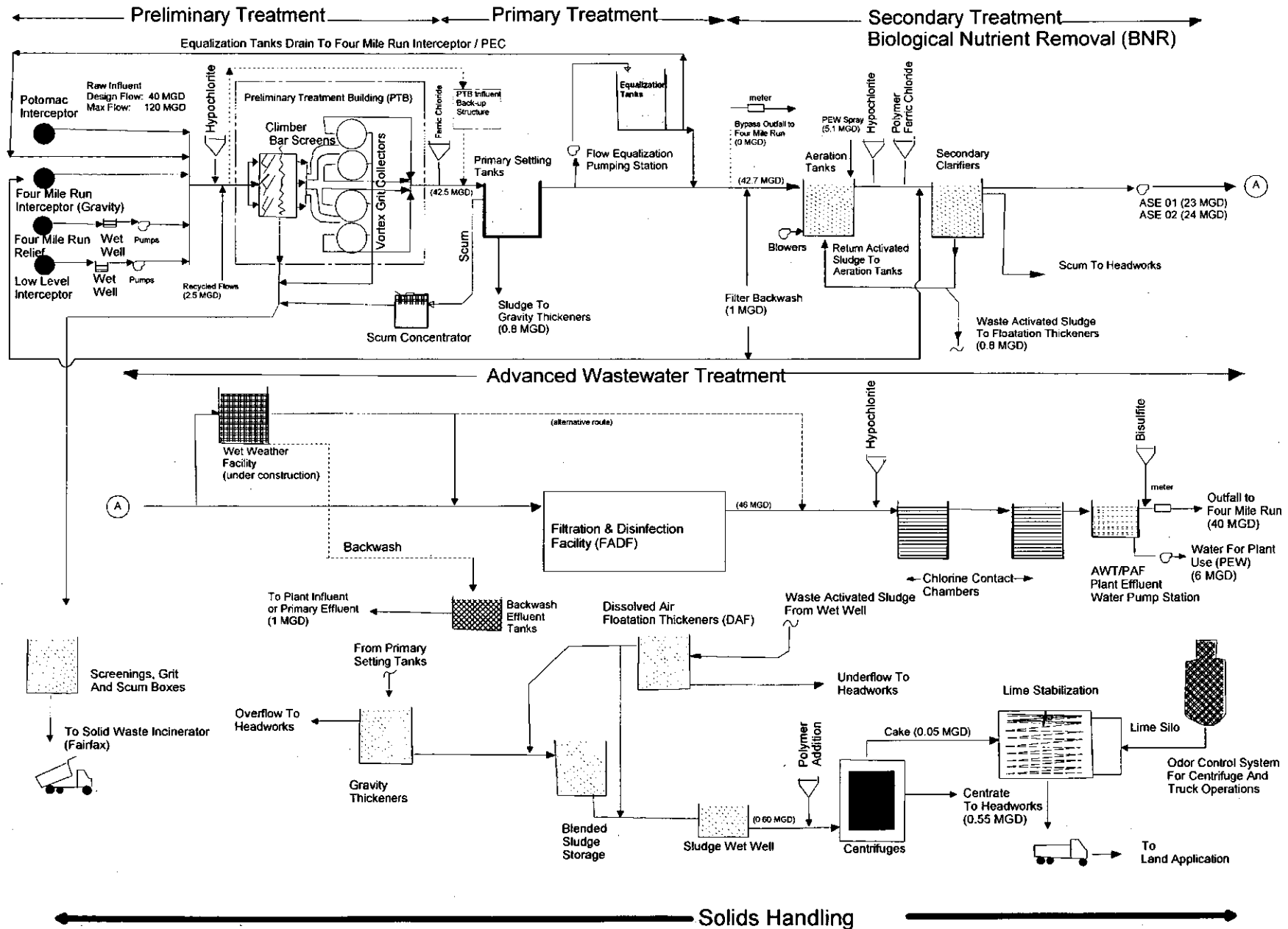
VPDES Permit No. VA0025143

2 of 2

Water Pollution Control Plant



Arlington County Water Pollution Control Plant Unit Process Flow Diagram



YAHOO! LOCAL
Maps

START  **3402 S Glebe Rd, Arlington, VA
22202-2325**

FINISH  **3474 Atlantic Ln, Waverly, VA 23890-
3726**

**Total Distance: 150.7 miles, Total Time:
2 hours 36 mins (approx.)**

Add your notes here...

A **3402 S GLEBE RD, ARLINGTON, VA 22202-2325**

1. Start at **3402 S GLEBE RD, ARLINGTON** going toward **S HAYES ST** go 1.2 mi
2. Take ramp onto **I-395 S** toward **RICHMOND/QUAKER LANE** go 7.6 mi
3. Continue on **I-95 S** go 84.4 mi
4. Take **L** exit **#84A/ROCKY MT NC** onto **I-295 S** go 41.2 mi
5. Take exit **#3A/NORFOLK** onto **COUNTY DR(US-460 E)** go 1.2 mi
6. Continue to follow **US-460 E** go 11.8 mi
7. Turn **R** on **CABIN POINT RD** go 1.9 mi
8. Turn **L** on **ATLANTIC LN** go 1.5 mi
9. Arrive at **3474 ATLANTIC LN, WAVERLY**, on the **R** go < 0.1 mi

B **3474 ATLANTIC LN, WAVERLY, VA 23890-3726**

A black and white map of Virginia, showing major cities, roads, and geographical features. The map includes labels for cities such as Washington, Richmond, Norfolk, and many others. Major highways are marked with numbers in circles. A scale bar at the bottom left indicates 100 km and 50 mi. The map is credited to Yahoo! and NAVTEQ.

VIRGINIA PERMIT

COUNTY	PERMIT #
Albemarle	VDHBUR 144
Amelia	VPA 00813
Amherst	VPA 03004
Appomattox	VDHBUR 109
Bedford	VDHBUR 30
Botetourt	VDHBUR 29
Buckingham	VDHBUR 92
Caroline	VPA 00063
Charles City	VDHBUR 36
Chesterfield	VDHBUR 110
Clarke	VDHBUR 65
Culpeper	VDHBUR 71
Dinwiddie	VDHBUR 88
Essex	VDHBUR 42
Fauquier	VPA 00062
Fluvanna	VPA 01578
Frederick	VDHBUR 24A
Goochland	VDHBUR 96
Hanover	VDHBUR 15A
Henry	VDHBUR 126
King George	VPA 00052
King & Queen	VDHBUR 43
King William	VDHBUR 57
Loudoun	VDHBUR 55
Louisa	VDHBUR 77
Lunenburg	VPA 03009
Madison	VDHBUR 112
Nelson	VPA 01576
New Kent	VDHBUR 34
Nottoway	VDHBUR 106
Orange	VDHBUR 33
Patrick	VDHBUR 127
Powhatan	VDHBUR 111
Prince George	VDHBUR 102
Richmond	VDHBUR 38A
Southampton	VDHBUR 133
Spotsylvania	VDHBUR 131
Surry	VPA 00822
Sussex	VPA 00808
Westmoreland	VDHBUR 58

NOTICE AND NECESSARY INFORMATION (NANI)

This form is to assist preparers of biosolids in transmitting information to land appliers per the notification requirements in 503.12(f).

Facility and Biosolids Type: Arlington Public Works
Monitoring Period: From 09/01/2012 **To** 09/30/2012

A. Please provide pollutant concentrations below (on a dry weight basis)

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (monthly average)	Ceiling Concentrations* (Table 1, 40 CFR 503.13) (daily maximum)
Arsenic	2.0	41 mg/kg	75 mg/kg
Cadmium	1.0	39 mg/kg	85 mg/kg
Copper	144	1500 mg/kg	4300 mg/kg
Lead	22	300 mg/kg	840 mg/kg
Mercury	<0.4	17 mg/kg	57 mg/kg
Molybdenum	9	N/A**	75 mg/kg
Nickel	8	420 mg/kg	420 mg/kg
Selenium	<1	100 mg/kg	100 mg/kg
Zinc	335	2800 mg/kg	7500 mg/kg
Nitrogen Concentration	2.93	N/A	N/A

* Biosolids may not be land applied if any pollutant exceeds these values.

** EPA has temporarily removed molybdenum limits from Table 2, Table 3 and Table 4.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate the level achieved and the alternative met

- ☐ Class A Alternative met: _____
- ☒ Class B Indicate if Alternative 1 or 2 was met below. For Alternative 2 indicate PSRP method.
 _____ Alternative 1: Fecal Coliform Geometric Mean of 7 samples is < 2,000,000 MPN or CFU/gram dry weight basis
 _____ Alternative 2: Indicate Process to Significantly Reduce Pathogens (PSRP) below:
 Anaerobic Digestion _____ Aerobic Digestion _____ Lime Stabilization ☒
 Air Drying _____ Composting _____

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option met:

- ☐ Option 1 ($\geq 38\%$ VS reduction) ☐ Option 2 (Anaerobic 40-day bench) ☐ Option 3 (Aerobic 30-day bench)
☐ Option 4 (SOUR) ☐ Option 5 (14-Day Aerobic) ☒ Option 6 (Alk Stabilization) ☐ Option 7 (Drying-Stable)
☐ Option 8 (Drying-Unstable) ☐ No vector attraction reduction options were met at the WWTP

D. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name and Official Title (type or print) <u>Larry Slattery, Bureau Chief</u>	B. Area Code and Telephone Number <u>703-228-6877</u>
C. Signature <u>[Signature]</u>	D. Date Signed <u>11/6/12</u>



DEPARTMENT OF ENVIRONMENTAL SERVICES
WATER POLLUTION CONTROL BUREAU

3402 S Glebe Rd. Arlington, VA 22202
TEL 703-228-6820 FAX 703-228-6875 TTY 703-228-4611 www.arlingtonva.us

November 6, 2012

Synagro Technologies Inc.
Ms. Kelly Love
Technical Services Director
10647 Tidewater Trail
Champlain, VA 22438-2017

Dear Ms. Love:

Please find attached the original Notice and Necessary Information (NANI) report for Arlington County Water Pollution Control Bureau for the month of September 2012.

Please feel free to call me at (703) 228-6866 should you have any questions.

Sincerely,

A handwritten signature in dark ink, appearing to read "David Tolson", written over a horizontal line.

David Tolson
Process Computer Control Technician

cc: Antron Sutton
Larry Slattery



HRSD

P.O. BOX 5911, VIRGINIA BEACH, VIRGINIA 23471-0911 • (757) 460-4205 • FAX: (757) 460-6586

www.brsd.com

ANALYTICAL REPORT

Project: Arlington
Customer Sample ID: Final Effluent
Project Code: ARL
Sample Parameter: Copper
Sample Date: 07/08/08

Analyte	Method	Unit	Result	Report Limit	Analyst	Analysis Date	Analysis Time
<u>Total Metals</u>							
* FNE	EPA 200.8	ug/L	1.9	1.0	CBATO	07/16/08	12:24

Notes

Report Limit is lowest concentration at which quantitation is demonstrated.

Authorization: _____

A handwritten signature, likely "D. Rhine", is written over the authorization line.

Date: 07/16/08

**HRSD**

P.O. BOX 5911, VIRGINIA BEACH, VIRGINIA 23471-0911 • (757) 460-4205 • FAX: (757) 460-6586

www.hrsd.com

ANALYTICAL REPORT

Project: Arlington
Customer Sample ID: Final Effluent
Project Code: ARL
Sample Parameter: Copper
Sample Date: 07/09/08

Analyte	Method	Unit	Result	Report Limit	Analyst	Analysis Date	Analysis Time
<u>Total Metals</u>							
FB	EPA 200.8	ug/L	<1.0	1.0	CBATO	07/16/08	12:16
* FNE	EPA 200.8	ug/L	1.9	1.0	CBATO	07/16/08	12:49

Notes

Report Limit is lowest concentration at which quantitation is demonstrated.

Authorization: _____

Date: _____

07/16/08

**HRSD**

P.O. BOX 5911, VIRGINIA BEACH, VIRGINIA 23471-0911 • (757) 460-4205 • FAX: (757) 460-6586

www.hrsd.com

ANALYTICAL REPORT

Project: Arlington
Customer Sample ID: Final Effluent
Project Code: ARL
Sample Parameter: Copper
Sample Date: 07/10/08

Analyte	Method	Unit	Result	Report Limit	Analyst	Analysis Date	Analysis Time
<u>Total Metals</u>							
FB	EPA 200.8	ug/L	<1.0	1.0	CBATO	07/16/08	12:20
* FNE	EPA 200.8	ug/L	1.9	1.0	CBATO	07/16/08	12:53

Notes

Report Limit is lowest concentration at which quantitation is demonstrated.

Authorization: PR LeeDate: 07/16/08

Certificate of Analysis

Wednesday, November 19, 2008

Prepared expressly for:

Arlington County WPC
3402 South Glebe Road

FINAL

Permit
PCE
Cu

Arlington, VA 22202

Attention: **Dennis Wisler**

Report for Lab No: 59952.

P.O. Number: Req 19150

Project Identification: AWT 1, 11/13/08.

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
59952	000001	AWT 1				11/13/2008 08:00
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Volatile Organic Compounds	Results	Follow	EPA 524.2		11/17/2008 16:42 CJD	
					/ /	
Tetrachloroethene	<0.5	ug/l	EPA 524	0.5	11/17/2008 16:42 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichlorobenzene-d4	115	%	EPA 524		11/17/2008 16:42 CJD	
4-Bromofluorobenzene	122	%	EPA 524		11/17/2008 16:42 CJD	
					/ /	
* Copper	<2	ug/l	EPA 200.8	2	11/14/2008 15:07 CSG	

Certificate of Analysis

Thursday, March 26, 2009

Prepared expressly for:

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 62974.

P.O. Number: 156600

Project Identification: Plant Fecal & Permit, 03/06/09.

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
62974	000001	AWT				03/06/2009 10:20
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Escherichia coli	<2	mpn/100ml	SM 9223 B	2	03/06/2009 14:15 MM	
* Copper	3.5	ug/l	EPA 200.8	2	03/25/2009 13:29 CSG	
Volatile Organic Compounds	Results	Follow	EPA 624		03/16/2009 15:49 CJD	
					/ /	
Tetrachloroethene	<5	ug/l	EPA 624	.5	03/16/2009 15:49 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichloroethane-d4	112	%	EPA 624		03/16/2009 15:49 CJD	
Toluene-d8	103	%	EPA 624		03/16/2009 15:49 CJD	
4-Bromofluorobenzene	99	%	EPA 624		03/16/2009 15:49 CJD	
					/ /	

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
62974	000002	B Blank				03/06/2009 10:45
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Copper	<2	ug/l	EPA 200.8	2	03/25/2009 13:32 CSG	

Certificate of Analysis

Wednesday, June 3, 2009

Prepared expressly for:

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 65005.

P.O. Number: 156600

Project Identification: Permit, 05/08/09.

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
65005	000001	AWT Outfall			05/08/2009 09:00	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
* Copper	<2	ug/l	EPA 200.8	2	05/27/2009 14:53 CSG	
Volatile Organic Compounds	Results	Follow	EPA 624		05/20/2009 04:22 CJD	
					/ /	
Tetrachloroethene	<5	ug/l	EPA 624	5	05/20/2009 04:22 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichloroethane-d4	114	%	EPA 624		05/20/2009 04:22 CJD	
Toluene-d8	102	%	EPA 624		05/20/2009 04:22 CJD	
4-Bromofluorobenzene	91	%	EPA 624		05/20/2009 04:22 CJD	
					/ /	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
65005	000002	Donaldson Run			05/07/2009 00:00	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
MPN Fecal Coliforms (A1)	500	mpn/100ml	SM 9221 E	2	05/08/2009 16:20 MM	
MPN Fecal Streptococci, organisms/100 ml	>=1600	mpn/100ml	SM 9230B		05/08/2009 16:20 MM	
Phosphorus (total)	0.23	mg/l	SM 4500P-E	0.01	05/15/2009 08:15 KA	
Nitrite Nitrogen	<0.02	mg/l	SM 4500N02B	0.02	05/08/2009 16:13 AD	
Nitrate Nitrogen	1.5	mg/l	SM Calc	0.02	05/11/2009 11:09 AD	
Nitrate-Nitrite Nitrogen	1.5	mg/l	SM 4500N03-H	0.02	05/11/2009 11:09 AD	
Ammonia Nitrogen	0.6	mg/l	SM 4500NH3-C	0.2	05/13/2009 07:40 CB	
Kjeldahl Nitrogen (Total)	1.8	mg/l	SM 4500NH3-C	0.5	05/21/2009 07:30 CB	
Biochemical Oxygen Demand	7	mg/l	SM 5210 B	1	05/08/2009 16:43 JL	
Chemical Oxygen Demand	27	mg/l	EPA 410.4	10	05/13/2009 08:25 JL	
Total Dissolved Solids	240	mg/l	SM 2540C	5	05/11/2009 14:35 TB	
Solids (Suspended)	130	mg/l	SM 2540 D	1	05/11/2009 09:50 TB	

Certificate of Analysis

Tuesday, July 21, 2009

Prepared expressly for:

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 66601.

P.O. Number: 156600

Project Identification: Permit, 06/22/09 & 07/02/09.

JUL 28 PM2:13

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
66601	000001	Outfall			07/02/2009 07:30	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Volatile Organic Compounds	Results	Follow	EPA 624		07/03/2009 19:36 CJD	
					/ /	
Tetrachloroethene	<5	ug/l	EPA 624	5	07/03/2009 19:36 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichloroethane-d4	158	%	EPA 624		07/03/2009 19:36 CJD	
Toluene-d8	104	%	EPA 624		07/03/2009 19:36 CJD	
4-Bromofluorobenzene	107	%	EPA 624		07/03/2009 19:36 CJD	
					/ /	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
66601	000002	Outfall			07/02/2009 07:30	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
* Copper	3.1	ug/l	EPA 200.8	2	07/15/2009 15:20 CSG	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
66601	000003	Chlorine Tank Influent			06/22/2009 08:55	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Oil and Grease (HEM)	5.0	mg/l	EPA 1664	5	07/09/2009 09:30 BAH	

Certificate of Analysis

Wednesday, September 23, 2009

*Prepared expressly for:***Arlington County WPC**
3402 South Glebe Road**FINAL**

Arlington, VA 22202

Attention: Dennis Wisler*Report for Lab No: 68169.**P.O. Number: 156600**Project Identification: Permit, 09/04/09.*

MARTEL NO.			CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
68169	000001	AWT					09/03/2009 07:25
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial		
* Copper	4.5	ug/l	EPA 200.8	2	09/18/2009 11:04	CSG	
Volatile Organic Compounds	Results	Follow	EPA 624		09/04/2009 21:15	CJD	
					/ /		
Tetrachloroethene	<5	ug/l	EPA 624	5	09/04/2009 21:15	CJD	
					/ /		
Surrogate Spike					/ /		
					/ /		
1,2-Dichloroethane-d4	138	%	EPA 624		09/04/2009 21:15	CJD	
Toluene-d8	99	%	EPA 624		09/04/2009 21:15	CJD	
4-Bromofluorobenzene	101	%	EPA 624		09/04/2009 21:15	CJD	
					/ /		

Martel Laboratories, Inc.1025 Cromwell Bridge Road - Baltimore, Maryland 21286
PH 410-825-7790 FAX 410-821-1054 EMAIL: vk@martellabs.com

Page 1

09/23/2009

nfdl_long

Certificate of Analysis

Monday, November 30, 2009

Prepared expressly for:

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 69760.

P.O. Number: 156600

Project Identification: Plant Permit, 11/06/09.

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
69760	000001	Outfall				11/06/2009 08:00
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Volatile Organic Compounds	Results	Follow	EPA 624		11/17/2009 12:28 CJD	
					//	
Tetrachloroethene	<5	ug/l	EPA 624	5	11/17/2009 12:28 CJD	
					//	
Surrogate Spike					//	
					//	
1,2-Dichloroethane-d4	134	%	EPA 624		11/17/2009 12:28 CJD	
Toluene-d8	96	%	EPA 624		11/17/2009 12:28 CJD	
4-Bromofluorobenzene	103	%	EPA 624		11/17/2009 12:28 CJD	
					//	
* Copper	<2	ug/l	EPA 200.8	2	11/16/2009 11:24 CSG	

Martel Laboratories JDS Inc.

1025 Cromwell Bridge Road - Baltimore, Maryland 21286
PH 410-825-7790 FAX 410-821-1054 EMAIL: martel@martellabs.com

ACWPCD

Page 1
11/30/2009
ndal_long

Certificate of Analysis

Tuesday, March 30, 2010

*Prepared expressly for:***Arlington County WPC**
3402 South Glebe Road**FINAL**

Arlington, VA 22202

Attention: Dennis Wisler*Report for Lab No: 72197.**P.O. Number: 168387**Project Identification: Permit, 03/12/10.*

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
72197	000001	AWT1 Plant Outfall			03/12/2010 08:30	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Volatile Organic Compounds	Results	Follow	EPA 624		03/17/2010 12:29 CJD	
					//	
Tetrachloroethene	<5	ug/l	EPA 624	5	03/17/2010 12:29 CJD	
					//	
Surrogate Spike					//	
					//	
1,2-Dichloroethane-d4	127	%	EPA 624		03/17/2010 12:29 CJD	
Toluene-d8	100	%	EPA 624		03/17/2010 12:29 CJD	
4-Bromofluorobenzene	89	%	EPA 624		03/17/2010 12:29 CJD	
					//	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
72197	000002	AWT2 Plant Outfall			03/12/2010 08:30	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
* Copper	3.5	ug/l	EPA 200.8	2	03/24/2010 12:38 CSG	

Martel Laboratories JDS Inc.1025 Cromwell Bridge Road - Baltimore, Maryland 21286
PH 410-825-7790 FAX 410-821-1054 EMAIL: martel@martellabs.com

ACWPCD

Page 1
03/30/2010
nfdl_long

Certificate of Analysis

Tuesday, May 25, 2010

Prepared expressly for:

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 73456.

P.O. Number: 168387

Project Identification: Permit, 05/07/10.

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
73456	000001	Outfall				05/07/2010 07:35
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
* Copper	3.8	ug/l	EPA 200.8	2	05/19/2010 10:06 EAR	

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
73456	000002	Outfall				05/07/2010 07:35
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Volatile Organic Compounds	Results	Follow	EPA 624		05/10/2010 21:09 CJD	
					/ /	
Tetrachloroethene	<5	ug/l	EPA 624	5	05/10/2010 21:09 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichloroethane-d4	104	%	EPA 624		05/10/2010 21:09 CJD	
Toluene-d8	98	%	EPA 624		05/10/2010 21:09 CJD	
4-Bromofluorobenzene	94	%	EPA 624		05/10/2010 21:09 CJD	
					/ /	

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
73456	000003	ASE2 Pump-001				05/03/2010 00:00
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Walkley-Black Method for Total Organic	0.21	%	Literature WB	5	05/20/2010 09:45 CSG	
Iron	480000	mg/kg	EPA 6010C	10	05/13/2010 14:38 EAR	
Calcium	2400	mg/kg	EPA 6010C	10	05/13/2010 12:16 EAR	
Manganese	2800	mg/kg	EPA 6010C	1	05/13/2010 13:48 EAR	
Copper	680	mg/kg	EPA 6010C	1	05/13/2010 13:46 EAR	
Zinc	120	mg/kg	EPA 6010C	2	05/13/2010 12:16 EAR	
Alkalinity, total (as CaCO3)	600	mg/kg	SM 2320B	50	05/17/2010 12:00 AD	

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Certificate of Analysis

Tuesday, August 31, 2010

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 75467.

P.O. Number: 168387

Project Identification: Permit, 08/10/10.

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
75467	000001	Outfall				08/10/2010 08:30
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
* Copper	<2	ug/l	EPA 200.8	2	08/16/2010 15:51 EAR	
Volatile Organic Compounds	Results	Follow	EPA 624		08/19/2010 16:28 CJD	
					/ /	
Tetrachloroethene	<5	ug/l	EPA 624	5	08/16/2010 21:57 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichloroethane-d4	99	%	EPA 624		08/16/2010 21:57 CJD	
Toluene-d8	100	%	EPA 624		08/16/2010 21:57 CJD	
4-Bromofluorobenzene	89	%	EPA 624		08/16/2010 21:57 CJD	
					/ /	



Certificate of Analysis

Thursday, December 16, 2010

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 77418.

P.O. Number: 178382

Project Identification: Outfall, 11/03-04/10.

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
77418 000001 AWT 1 Outfall		11/01/2010 10:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Antimony	<5	ug/l	EPA 200.8	5	11/15/2010 11:55 EAR
Arsenic	<2	ug/l	EPA 200.8	2	11/15/2010 11:55 EAR
Beryllium	<0.5	ug/l	EPA 200.8	0.5	11/15/2010 11:55 EAR
Cadmium	<0.5	ug/l	EPA 200.8	0.5	11/15/2010 11:55 EAR
Chromium	<2	ug/l	EPA 200.8	2	11/15/2010 11:55 EAR
* Copper	<2	ug/l	EPA 200.8	2	11/15/2010 11:55 EAR
Lead	<2	ug/l	EPA 200.8	2	11/15/2010 11:55 EAR
Mercury	<0.5	ug/l	EPA 245.1	0.5	11/09/2010 10:33 AD
Molybdenum	3.9	ug/l	EPA 200.8	2	11/15/2010 11:55 EAR
* Nickel	2.3	ug/l	EPA 200.8	2	11/15/2010 11:55 EAR
Selenium	<5	ug/l	EPA 200.8	5	11/15/2010 11:55 EAR
Silver	<1	ug/l	EPA 200.8	1	11/15/2010 11:55 EAR
Thallium	<2	ug/l	EPA 200.8	2	11/15/2010 11:55 EAR
* Zinc	18	ug/l	EPA 200.8	10	11/15/2010 11:55 EAR

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
77418 000002 AWT 2 Outfall		11/01/2010 10:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Phenols	<0.01	mg/l	EPA 420.4	0.01	11/16/2010 10:45 AD

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
77418 000003 AWT 3 Outfall		11/01/2010 10:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Hardness (total)	140	mg/l	SM 2340B	1	11/11/2010 08:00 AD

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
77418 000004 AWT 4 Outfall		11/01/2010 10:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Base/Neutral/Acid Extractable Compounds	Results	Follow	EPA 625		11/18/2010 15:07 CJD
Acenaphthene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD

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MARTEL NO. 77418 000004 AWT 4 Outfall CLIENT SAMPLE IDENTIFICATION Sample Date/Time 11/01/2010 10:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Acenaphthylene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Anthracene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Benzo(a)anthracene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Benzo(b)fluoranthene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Benzo(k)fluoranthene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Benzo(a)pyrene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Benzo(ghi)perylene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Butyl benzyl phthalate	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Bis(2-chloroethoxy)methane	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Bis-(2-chloroethyl)ether	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Bis(2-chloroisopropyl)ether	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
* Bis(2-ethylhexyl)phthalate	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
4-Bromophenyl phenyl ether	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
2-Chloronaphthalene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
4-Chlorophenyl phenyl ether	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Chrysene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Dibenz(a,h)anthracene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
1,3-Dichlorobenzene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
1,4-Dichlorobenzene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
1,2-Dichlorobenzene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Diethyl phthalate	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Dimethyl phthalate	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
2,4-Dinitrotoluene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
2,6-Dinitrotoluene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Di-n-octylphthalate	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Fluoranthene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Fluorene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Hexachlorobenzene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Hexachlorobutadiene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Hexachloroethane	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Indeno-(1,2,3-cd)-pyrene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Isophorone	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Naphthalene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Nitrobenzene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
N-Nitroso-di-N-propylamine	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Phenanthrene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Pyrene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
1,2,4-Trichlorobenzene	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
4-Chloro-3-methylphenol	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
2-Chlorophenol	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
3,3'-Dichlorobenzidine	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
2,4-Dichlorophenol	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
2,4-Dimethylphenol	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
Di-N-butyl phthalate	<6.2	ug/l	EPA 625	6.2	11/18/2010 15:07 CJD
2,4-Dinitrophenol	<12	ug/l	EPA 625	12	11/18/2010 15:07 CJD

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MARTEL NO. 77418 000005 AWT 5 Outfall CLIENT SAMPLE IDENTIFICATION Sample Date/Time 11/01/2010 10:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Toxaphene	<0.53	ug/l	EPA 608	0.53	12/16/2010 03:18 MW
PCB-1016	<0.53	ug/l	EPA 608	0.53	12/16/2010 03:18 MW
PCB-1221	<0.53	ug/l	EPA 608	0.53	12/16/2010 03:18 MW
PCB-1232	<0.53	ug/l	EPA 608	0.53	12/16/2010 03:18 MW
PCB-1242	<0.53	ug/l	EPA 608	0.53	12/16/2010 03:18 MW
PCB-1248	<0.53	ug/l	EPA 608	0.53	12/16/2010 03:18 MW
PCB-1254	<0.53	ug/l	EPA 608	0.53	12/16/2010 03:18 MW
PCB-1260	<0.53	ug/l	EPA 608	0.53	12/16/2010 03:18 MW
					//
Surrogate Spike					//
					//
2,4,5,6-Tetrachlorometaxylene	87	%	EPA 608		12/16/2010 03:18 MW
Decachlorobiphenyl	66	%	EPA 608		12/16/2010 03:18 MW
					//

MARTEL NO. 77418 000006 AWT 6 Outfall CLIENT SAMPLE IDENTIFICATION Sample Date/Time 11/03/2010 14:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Cyanide	<0.005	mg/l	SM 4500	0.005	11/08/2010 13:20 AD
Cyanide (total),	<0.005	mg/l	SM 4500CN-E	0.005	11/10/2010 04:15 AD

MARTEL NO. 77418 000007 AWT 7 Outfall CLIENT SAMPLE IDENTIFICATION Sample Date/Time 11/03/2010 14:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Volatile Organic Compounds	Results	Follow	EPA 624		11/11/2010 07:10 CJD
					//
Acrolein	<10	ug/l	EPA 624	10	11/11/2010 07:10 CJD
Acrylonitrile	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
Benzene	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
* Bromodichloromethane	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
Bromoform	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
Bromomethane	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
Carbon tetrachloride	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
Chlorobenzene	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
Chloroethane	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
2-Chloroethylvinyl ether	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
* Chloroform	7.6	ug/l	EPA 624	5	11/11/2010 07:10 CJD
Chloromethane	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
Dibromochloromethane	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
1,2-Dichlorobenzene	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
1,3-Dichlorobenzene	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
1,4-Dichlorobenzene	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD
1,1-Dichloroethane	<5	ug/l	EPA 624	5	11/11/2010 07:10 CJD

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ANALYTICAL RESULTS

Workorder: 9880115 78044-1

Lab ID: 9880115001

Date Collected: 12/8/2010 00:00

Matrix: Drinking Water

Sample ID: 78044-1

Date Received: 12/10/2010 10:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Alachlor	ND		ug/L	0.10	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Atrazine	ND		ug/L	0.10	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
gamma-BHC	ND		ug/L	0.10	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Benzo(a)pyrene	ND		ug/L	0.10	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Endrin	ND		ug/L	0.20	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Di(2-Ethylhexyl)adipate	ND		ug/L	0.50	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
* bis(2-Ethylhexyl)phthalate	56.5		ug/L	20.0	EPA 525.2	12/13/10	JEK	12/18/10 03:47	DHF	A1
Heptachlor	ND		ug/L	0.10	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Heptachlor Epoxide	ND		ug/L	0.10	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Hexachlorobenzene	ND		ug/L	0.10	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Hexachlorocyclopentadiene	ND		ug/L	0.50	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Methoxychlor	ND		ug/L	0.10	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Metolachlor	ND		ug/L	0.10	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Simazine	ND		ug/L	0.10	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
IS_1,3-Dimethyl-2-Nitrobenzene (S)	99		%	70-130	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
IS_Perylene-d12 (S)	111		%	70-130	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
Pyrene-d10 (S)	108		%	70-130	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
IS_Triphenylphosphate (S)	116		%	70-130	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
IS_1,3-Dimethyl-2-Nitrobenzene (S)	103		%	70-130	EPA 525.2	12/13/10	JEK	12/18/10 03:47	DHF	A1
Pyrene-d10 (S)	101		%	70-130	EPA 525.2	12/13/10	JEK	12/18/10 03:47	DHF	A1
IS_Triphenylphosphate (S)	101		%	70-130	EPA 525.2	12/13/10	JEK	12/18/10 03:47	DHF	A1
IS_Perylene-d12 (S)	99.2		%	70-130	EPA 525.2	12/13/10	JEK	12/18/10 03:47	DHF	A1

Library Search - SemiVolatiles

Library Search - SemiVolatiles	EPA 525.2	12/13/10	JEK	12/17/10 00:59	AJL	A1
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Sample Comments:

Anna G. Milliken
Anna G Milliken
Laboratory Manager

MARTEL

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Thursday, February 17, 2011

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

FEB 23 AM 12:21

Attention: Dennis Wisler

Report for Lab No: 78975.

P.O. Number: 174942

Project Identification: Permit, 02/03/11.

MARTEL NO.			CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
78975	000001	Outfall					02/03/2011 08:30
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial		
* Copper	2.7	ug/l	EPA 200.8	2	02/08/2011 10:20 EAR		
Volatile Organic Compounds	Results	Follow	EPA 624		02/06/2011 08:33 CJD		
					/ /		
Tetrachloroethene	<5	ug/l	EPA 624	5	02/06/2011 08:33 CJD		
					/ /		
Surrogate Spike					/ /		
					/ /		
1,2-Dichloroethane-d4	106	%	EPA 624		02/06/2011 08:33 CJD		
Toluene-d8	99	%	EPA 624		02/06/2011 08:33 CJD		
4-Bromofluorobenzene	92	%	EPA 624		02/06/2011 08:33 CJD		
					/ /		

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Certificate of Analysis

Wednesday, July 6, 2011

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 81207.

P.O. Number: 178382

Project Identification: Permit, 05/23/11.

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION			Sample Date/Time	
81207	000001	Outfall			05/23/2011 08:00	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Oil and Grease (HEM)	<5	mg/l	EPA 1664	5	06/01/2011 13:24 SCN	
Antimony	<5	ug/l	EPA 200.8	5	06/03/2011 14:48 CSG	
Arsenic	<2	ug/l	EPA 200.8	2	06/03/2011 14:48 CSG	
Beryllium	<0.5	ug/l	EPA 200.8	0.5	06/03/2011 14:48 CSG	
Cadmium	<0.5	ug/l	EPA 200.8	0.5	06/03/2011 14:48 CSG	
Chromium	<2	ug/l	EPA 200.8	2	06/03/2011 14:48 CSG	
Copper	<2	ug/l	EPA 200.8	2	06/03/2011 14:48 CSG	
Lead	<2	ug/l	EPA 200.8	2	06/03/2011 14:48 CSG	
Mercury	<0.5	ug/l	EPA 245.1	0.5	05/27/2011 09:51 CSG	
Molybdenum	3.4	ug/l	EPA 200.8	2	06/03/2011 14:48 CSG	
Nickel	<2	ug/l	EPA 200.8	2	06/03/2011 14:48 CSG	
Selenium	<5	ug/l	EPA 200.8	5	06/03/2011 14:48 CSG	
Silver	<1	ug/l	EPA 200.8	1	06/03/2011 14:48 CSG	
Thallium	<2	ug/l	EPA 200.8	2	06/03/2011 14:48 CSG	
Zinc	24	ug/l	EPA 200.8	10	06/03/2011 14:48 CSG	
Volatile Organic Compounds	Results	Follow	EPA 624		05/24/2011 15:34 CJD	
/ /						
Acrolein	<10	ug/l	EPA 624	10	05/24/2011 15:34 CJD	
Acrylonitrile	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Benzene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Bromodichloromethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Bromoform	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Bromomethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Carbon tetrachloride	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Chlorobenzene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Chloroethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
2-Chloroethylvinyl ether	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Chloroform	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Chloromethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Dibromochloromethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
1,2-Dichlorobenzene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
1,3-Dichlorobenzene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
1,4-Dichlorobenzene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	

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07/06/2011
nfd_lorig

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION			Sample Date/Time	
81207	000001	Outfall				05/23/2011 08:00
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
1,1-Dichloroethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
1,2-Dichloroethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
1,1-Dichloroethene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
trans-1,2-Dichloroethene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
1,2-Dichloropropane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
cis-1,3-Dichloropropene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
trans-1,3-Dichloropropene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Ethylbenzene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Dichloromethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
1,1,2,2-Tetrachloroethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Tetrachloroethene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Toluene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
1,1,1-Trichloroethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
1,1,2-Trichloroethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Trichloroethene	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Trichlorofluoromethane	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
Vinyl chloride	<5	ug/l	EPA 624	5	05/24/2011 15:34 CJD	
						//
Surrogate Spike						//
						//
1,2-Dichloroethane-d4	104	%	EPA 624		05/24/2011 15:34 CJD	
Toluene-d8	100	%	EPA 624		05/24/2011 15:34 CJD	
4-Bromofluorobenzene	109	%	EPA 624		05/24/2011 15:34 CJD	
						//
Hardness (total)	140	mg/l	SM 2340C	1	06/06/2011 07:45 AD	
Cyanide (total)	<0.005	mg/l	SM 4500CN-E	0.005	05/27/2011 14:15 CSG	
Phenols	<0.01	mg/l	EPA 420.4	0.01	06/09/2011 16:10 CSG	
Base/Neutral/Acid Extractable Compounds	Results	Follow	EPA 625		06/24/2011 11:59 CJD	
						//
Acenaphthene	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Acenaphthylene	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Anthracene	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Benzo(a)anthracene	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Benzo(b)fluoranthene	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Benzo(k)fluoranthene	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Benzo(a)pyrene	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Benzo(ghi)perylene	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Butyl benzyl phthalate	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Bis(2-chloroethoxy)methane	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Bis-(2-chloroethyl)ether	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Bis(2-chloroisopropyl)ether	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
Bis(2-ethylhexyl)phthalate	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
4-Bromophenyl phenyl ether	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
2-Chloronaphthalene	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	
4-Chlorophenyl phenyl ether	<5.3	ug/l	EPA 625	5.3	06/24/2011 11:59 CJD	

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VELAP ID 460017



Certificate of Analysis

Monday, August 15, 2011

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 82313.

P.O. Number: 178382

Project Identification: Permit, 07/12/11.

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
82313	000001	Outfall				07/12/2011 07:30
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Volatile Organic Compounds	Results	Follow	EPA 624		07/20/2011 10:55 CJD	
					/ /	
Tetrachloroethene	<5	ug/l	EPA 624	5	07/20/2011 10:55 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichloroethane-d4	94	%	EPA 624		07/20/2011 10:55 CJD	
Toluene-d8	93	%	EPA 624		07/20/2011 10:55 CJD	
4-Bromofluorobenzene	83	%	EPA 624		07/20/2011 10:55 CJD	
					/ /	
* Copper	<2	ug/l	EPA 200.8	2	08/04/2011 19:24 CSG	

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VELAP ID 460017



Certificate of Analysis

Wednesday, November 23, 2011

Arlington County WPC**FINAL**

3402 South Glebe Road

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 84902.

P.O. Number: 168567

Project Identification: Permit, 11/02/11.

MARTEL NO.			CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
84902	000001	Outfall					11/02/2011 09:30
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial		
* Copper	2.2	ug/l	EPA 200.8	2	11/11/2011 16:03 CSG		
Volatile Organic Compounds	Results	Follow	EPA 624		11/12/2011 01:55 CJD		
					//		
Tetrachloroethene	<5	ug/l	EPA 624	5	11/12/2011 01:55 CJD		
					//		
Surrogate Spike					//		
					//		
1,2-Dichloroethane-d4	97	%	EPA 624		11/12/2011 01:55 CJD		
Toluene-d8	100	%	EPA 624		11/12/2011 01:55 CJD		
4-Bromofluorobenzene	94	%	EPA 624		11/12/2011 01:55 CJD		
					//		

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Certificate of Analysis

Monday, January 9, 2012

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Dennis Wisler

Report for Lab No: 85673.

P.O. Number: 186567

Project Identification: Plant Sampling, 12/04-05/11.

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
85673	000001	Outfall			12/05/2011 07:45	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Antimony	<5	ug/l	EPA 200.8	5	12/16/2011 18:44	CSG
Arsenic	<2	ug/l	EPA 200.8	2	12/16/2011 18:44	CSG
Beryllium	<0.5	ug/l	EPA 200.8	0.5	12/16/2011 18:44	CSG
Cadmium	<0.5	ug/l	EPA 200.8	0.5	12/16/2011 18:44	CSG
Chromium	<2	ug/l	EPA 200.8	2	12/16/2011 18:44	CSG
Lead	<2	ug/l	EPA 200.8	2	12/16/2011 18:44	CSG
Mercury	<0.5	ug/l	EPA 245.1	0.5	12/16/2011 11:21	CSG
Molybdenum	3.9	ug/l	EPA 200.8	2	12/16/2011 18:44	CSG
* Nickel	2.2	ug/l	EPA 200.8	2	12/16/2011 18:44	CSG
Selenium	<5	ug/l	EPA 200.8	5	12/16/2011 18:44	CSG
Silver	<1	ug/l	EPA 200.8	1	12/16/2011 18:44	CSG
Thallium	<1	ug/l	EPA 200.8	1	12/16/2011 18:44	CSG
* Zinc	27	ug/l	EPA 200.8	10	12/16/2011 18:44	CSG
Base/Neutral/Acid Extractable Compounds	Results	Follow	EPA 625		12/27/2011 13:02	CJD
/ /						
Acenaphthene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Acenaphthylene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Anthracene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Benzo(a)anthracene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Benzo(b)fluoranthene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Benzo(k)fluoranthene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Benzo(a)pyrene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Benzo(ghi)perylene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Butyl benzyl phthalate	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Bis(2-chloroethoxy)methane	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Bis-(2-chloroethyl)ether	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Bis(2-chloroisopropyl)ether	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
* Bis(2-ethylhexyl)phthalate	5.8	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
4-Bromophenyl phenyl ether	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
2-Chloronaphthalene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
4-Chlorophenyl phenyl ether	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Chrysene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD
Dibenz(a,h)anthracene	<5.3	ug/l	EPA 625	5.3	12/27/2011 13:02	CJD

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MARTEL NO.

85673

000002

Outfall

CLIENT SAMPLE IDENTIFICATION
Sample Date/Time

12/06/2011 07:45

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Antimony	<5	ug/l	EPA 200.8	5	12/16/2011 18:56 CSG
Arsenic	<2	ug/l	EPA 200.8	2	12/16/2011 18:56 CSG
Beryllium	<0.5	ug/l	EPA 200.8	0.5	12/16/2011 18:56 CSG
Cadmium	<0.5	ug/l	EPA 200.8	0.5	12/16/2011 18:56 CSG
Chromium	<2	ug/l	EPA 200.8	2	12/16/2011 18:56 CSG
Lead	<2	ug/l	EPA 200.8	2	12/16/2011 18:56 CSG
Mercury	<0.5	ug/l	EPA 245.1	0.5	12/16/2011 11:21 CSG
Molybdenum	3.6	ug/l	EPA 200.8	2	12/16/2011 18:56 CSG
* Nickel	2.1	ug/l	EPA 200.8	2	12/16/2011 18:56 CSG
Selenium	<5	ug/l	EPA 200.8	5	12/16/2011 18:56 CSG
Silver	<1	ug/l	EPA 200.8	1	12/16/2011 18:56 CSG
Thallium	<1	ug/l	EPA 200.8	1	12/16/2011 18:56 CSG
* Zinc	22	ug/l	EPA 200.8	10	12/16/2011 18:56 CSG
Base/Neutral/Acid Extractable Compounds	Results	Follow	EPA 625		12/27/2011 13:46 CJD
/ /					
Acenaphthene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Acenaphthylene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Anthracene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Benzo(a)anthracene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Benzo(b)fluoranthene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Benzo(k)fluoranthene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Benzo(a)pyrene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Benzo(ghi)perylene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Butyl benzyl phthalate	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Bis(2-chloroethoxy)methane	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Bis-(2-chloroethyl)ether	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Bis(2-chloroisopropyl)ether	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
* Bis(2-ethylhexyl)phthalate	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
4-Bromophenyl phenyl ether	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
2-Chloronaphthalene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
4-Chlorophenyl phenyl ether	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Chrysene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Dibenz(a,h)anthracene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
1,3-Dichlorobenzene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
1,4-Dichlorobenzene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
1,2-Dichlorobenzene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Diethyl phthalate	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Dimethyl phthalate	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
2,4-Dinitrotoluene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
2,6-Dinitrotoluene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Di-n-octylphthalate	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Fluoranthene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Fluorene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Hexachlorobenzene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD
Hexachlorobutadiene	<6.2	ug/l	EPA 625	6.2	12/27/2011 13:46 CJD

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MARTEL NO.			CLIENT SAMPLE IDENTIFICATION			Sample Date/Time	
85673	000002	Outfall				12/06/2011 07:45	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial		
4,4'-DDD	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
4,4'-DDE	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
4,4'-DDT	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
Dieldrin	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
Endosulfan I	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
Endosulfan II	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
Endosulfan Sulfate	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
Endrin	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
Endrin Aldehyde	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
Heptachlor	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
Heptachlor Epoxide	<0.06	ug/l	EPA 608	0.06	12/31/2011 00:51 EAR		
Toxaphene	<0.57	ug/l	EPA 608	0.57	12/31/2011 00:51 EAR		
PCB-1016	<0.57	ug/l	EPA 608	0.57	12/31/2011 00:51 EAR		
PCB-1221	<0.57	ug/l	EPA 608	0.57	12/31/2011 00:51 EAR		
PCB-1232	<0.57	ug/l	EPA 608	0.57	12/31/2011 00:51 EAR		
PCB-1242	<0.57	ug/l	EPA 608	0.57	12/31/2011 00:51 EAR		
PCB-1248	<0.57	ug/l	EPA 608	0.57	12/31/2011 00:51 EAR		
PCB-1254	<0.57	ug/l	EPA 608	0.57	12/31/2011 00:51 EAR		
PCB-1260	<0.57	ug/l	EPA 608	0.57	12/31/2011 00:51 EAR		
Surrogate Spike					/ /		
2,4,5,6-Tetrachlorometaxylene	68	%	EPA 608		12/31/2011 00:51 EAR		
Decachlorobiphenyl	73	%	EPA 608		12/31/2011 00:51 EAR		
Hardness (total)	100	mg/l	SM 2340C	1	12/20/2011 11:00 ALA		
Total Dissolved Solids	320	mg/l	SM 2540C	5	12/10/2011 13:15 CB		

MARTEL NO.			CLIENT SAMPLE IDENTIFICATION			Sample Date/Time	
85673	000003	Outfall				12/09/2011 09:00	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial		
Volatile Organic Compounds	Results	Follow	EPA 624		12/09/2011 10:16 CJD		
Acrolein	<10	ug/l	EPA 624	10	12/09/2011 10:16 CJD		
Acrylonitrile	<5	ug/l	EPA 624	5	12/09/2011 10:16 CJD		
Benzene	<5	ug/l	EPA 624	5	12/09/2011 10:16 CJD		
* Bromodichloromethane	<5	ug/l	EPA 624	5	12/09/2011 10:16 CJD		
Bromoform	<5	ug/l	EPA 624	5	12/09/2011 10:16 CJD		
Bromomethane	<5	ug/l	EPA 624	5	12/09/2011 10:16 CJD		
Carbon tetrachloride	<5	ug/l	EPA 624	5	12/09/2011 10:16 CJD		
Chlorobenzene	<5	ug/l	EPA 624	5	12/09/2011 10:16 CJD		
Chloroethane	<5	ug/l	EPA 624	5	12/09/2011 10:16 CJD		
2-Chloroethylvinyl ether	<5	ug/l	EPA 624	5	12/09/2011 10:16 CJD		
* Chloroform	6.8	ug/l	EPA 624	5	12/09/2011 10:16 CJD		

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MARTEL NO.
85673 000005

CLIENT SAMPLE IDENTIFICATION

Sample Date/Time
/ /

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Acrolein	<10	ug/l	EPA 624	10	12/09/2011 10:57 CJD
Acrylonitrile	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Benzene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
* Bromodichloromethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Bromoform	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Bromomethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Carbon tetrachloride	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Chlorobenzene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Chloroethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
2-Chloroethylvinyl ether	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
* Chloroform	7.5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Chloromethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Dibromochloromethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
1,2-Dichlorobenzene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
1,3-Dichlorobenzene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
1,4-Dichlorobenzene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
1,1-Dichloroethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
1,2-Dichloroethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
1,1-Dichloroethene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
trans-1,2-Dichloroethene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
1,2-Dichloropropane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
cis-1,3-Dichloropropene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
trans-1,3-Dichloropropene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Ethylbenzene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Dichloromethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
1,1,2,2-Tetrachloroethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Tetrachloroethene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Toluene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
1,1,1-Trichloroethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
1,1,2-Trichloroethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Trichloroethene	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Trichlorofluoromethane	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
Vinyl chloride	<5	ug/l	EPA 624	5	12/09/2011 10:57 CJD
					/ /
Surrogate Spike					/ /
					/ /
1,2-Dichloroethane-d4	116	%	EPA 624		12/09/2011 10:57 CJD
Toluene-d8	99	%	EPA 624		12/09/2011 10:57 CJD
4-Bromofluorobenzene	97	%	EPA 624		12/09/2011 10:57 CJD
					/ /
Oil and Grease (HEM)	6.5	mg/l	EPA 1664	5	12/14/2011 10:47 SCN

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MARTEL NO.

85673

000006

Outfall

CLIENT SAMPLE IDENTIFICATION
Sample Date/Time

12/07/2011 08:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Antimony	<5	ug/l	EPA 200.8	5	12/16/2011 18:59 CSG
Arsenic	<2	ug/l	EPA 200.8	2	12/16/2011 18:59 CSG
Beryllium	<0.5	ug/l	EPA 200.8	0.5	12/16/2011 18:59 CSG
Cadmium	<0.5	ug/l	EPA 200.8	0.5	12/16/2011 18:59 CSG
Chromium	<2	ug/l	EPA 200.8	2	12/16/2011 18:59 CSG
Lead	<2	ug/l	EPA 200.8	2	12/16/2011 18:59 CSG
Mercury	<0.5	ug/l	EPA 245.1	0.5	12/16/2011 11:21 CSG
Molybdenum	2.9	ug/l	EPA 200.8	2	12/16/2011 18:59 CSG
* Nickel	<2	ug/l	EPA 200.8	2	12/16/2011 18:59 CSG
Selenium	<5	ug/l	EPA 200.8	5	12/16/2011 18:59 CSG
Silver	<1	ug/l	EPA 200.8	1	12/16/2011 18:59 CSG
Thallium	<1	ug/l	EPA 200.8	1	12/16/2011 18:59 CSG
* Zinc	27	ug/l	EPA 200.8	10	12/16/2011 18:59 CSG
Base/Neutral/Acid Extractable Compounds	Results	Follow	EPA 625		12/27/2011 14:32 CJD
/ /					
Acenaphthene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Acenaphthylene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Anthracene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Benzo(a)anthracene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Benzo(b)fluoranthene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Benzo(k)fluoranthene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Benzo(a)pyrene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Benzo(ghi)perylene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Butyl benzyl phthalate	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Bis(2-chloroethoxy)methane	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Bis-(2-chloroethyl)ether	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Bis(2-chloroisopropyl)ether	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
* Bis(2-ethylhexyl)phthalate	6.0	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
4-Bromophenyl phenyl ether	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
2-Chloronaphthalene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
4-Chlorophenyl phenyl ether	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Chrysene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Dibenz(a,h)anthracene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
1,3-Dichlorobenzene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
1,4-Dichlorobenzene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
1,2-Dichlorobenzene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Diethyl phthalate	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Dimethyl phthalate	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
2,4-Dinitrotoluene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
2,6-Dinitrotoluene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Di-n-octylphthalate	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Fluoranthene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Fluorene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Hexachlorobenzene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD
Hexachlorobutadiene	<5.4	ug/l	EPA 625	5.4	12/27/2011 14:32 CJD

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MARTEL



VELAP ID 460017

Certificate of Analysis

Wednesday, April 18, 2012

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Beau Dodge

Report for Lab No: 87857.

P.O. Number: 186567

Project Identification: VPDES Permit, 3/19/12.

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
87857	000001	Outfall				03/19/2012 08:40
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Copper	0.002	mg/l	EPA 200.8	0.002	04/17/2012 01:03 CSG	
Volatile Organic Compounds	Results	Follow	EPA 624		03/24/2012 07:20 CJD	
/ /						
Acrolein	ND	ug/l	EPA 624	10	03/24/2012 07:20 CJD	
Acrylonitrile	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Benzene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Bromodichloromethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Bromoform	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Bromomethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Carbon tetrachloride	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Chlorobenzene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Chloroethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
2-Chloroethylvinyl ether	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Chloroform	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Chloromethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Dibromochloromethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
1,2-Dichlorobenzene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
1,3-Dichlorobenzene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
1,4-Dichlorobenzene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
1,1-Dichloroethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
1,2-Dichloroethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
1,1-Dichloroethene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
trans-1,2-Dichloroethene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
1,2-Dichloropropane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
cis-1,3-Dichloropropene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
trans-1,3-Dichloropropene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Ethylbenzene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Dichloromethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Tetrachloroethene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
Toluene	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
1,1,1-Trichloroethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	
1,1,2-Trichloroethane	ND	ug/l	EPA 624	5	03/24/2012 07:20 CJD	

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Certificate of Analysis

Wednesday, May 9, 2012

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Beau Dodge

Report for Lab No: 88449.

P.O. Number: 186567

Project Identification: VPDES Permit, 4/16/12.

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
88449	000001	AWT1- Outfall 001				04/16/2012 08:25
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Copper	<0.002	mg/l	EPA 200.8	0.002	04/20/2012 12:40 CSG	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
88449	000002	AWT2- Outfall 001				04/16/2012 08:30
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Volatile Organic Compounds	Results	Follow	EPA 624		04/25/2012 22:16 CJD	
					/ /	
Tetrachloroethene	<5	ug/l	EPA 624	5	04/25/2012 22:16 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichloroethane-d4	106	%	EPA 624		04/25/2012 22:16 CJD	
Toluene-d8	88	%	EPA 624		04/25/2012 22:16 CJD	
4-Bromofluorobenzene	74	%	EPA 624		04/25/2012 22:16 CJD	
					/ /	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
88449	0003FB	Field Blank				04/16/2012 08:10
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Volatile Organic Compounds	Results	Follow	EPA 624		04/25/2012 17:34 CJD	
					/ /	
Tetrachloroethene	<5	ug/l	EPA 624	5	04/25/2012 17:34 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichloroethane-d4	105	%	EPA 624		04/25/2012 17:34 CJD	
Toluene-d8	84	%	EPA 624		04/25/2012 17:34 CJD	
4-Bromofluorobenzene	75	%	EPA 624		04/25/2012 17:34 CJD	
					/ /	

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VELAP ID 460017



Certificate of Analysis

Monday, August 6, 2012

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Beau Dodge

Report for Lab No: 90647.

Project Identification: VPDES Permit- 7/20/12.

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
90647	000001	Outfall 001			07/20/2012 07:05	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
* Copper	0.003	mg/l	EPA 200.8	0.002	07/26/2012 11:51 CSG	
Volatile Organic Compounds	Results	Follow	EPA 624		07/26/2012 16:05 CJD	
					/ /	
Tetrachloroethene	<5	ug/l	EPA 624	5	07/26/2012 16:05 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichloroethane-d4	113	%	EPA 624		07/26/2012 16:05 CJD	
Toluene-d8	89	%	EPA 624		07/26/2012 16:05 CJD	
4-Bromofluorobenzene	82	%	EPA 624		07/26/2012 16:05 CJD	
					/ /	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
90647	0002FB	Field Blank			07/20/2012 06:45	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Volatile Organic Compounds	Results	Follow	EPA 624		07/25/2012 18:49 CJD	
					/ /	
Tetrachloroethene	<5	ug/l	EPA 624	5	07/25/2012 18:49 CJD	
					/ /	
Surrogate Spike					/ /	
					/ /	
1,2-Dichloroethane-d4	114	%	EPA 624		07/25/2012 18:49 CJD	
Toluene-d8	89	%	EPA 624		07/25/2012 18:49 CJD	
4-Bromofluorobenzene	78	%	EPA 624		07/25/2012 18:49 CJD	
					/ /	

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VELAP ID 460017



Certificate of Analysis

Friday, October 19, 2012

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202
Attention: Beau Dodge

Report for Lab No: 92436.

P.O. Number: 198339

Project Identification: VPDES Permit, 10/1/12.

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
92436 000001 Outfall 001		10/01/2012 12:55

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
* Copper	0.002	mg/l	EPA 200.8	0.002	10/18/2012 13:00 CSG

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
92436 000002 Outfall 001		10/01/2012 13:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Volatile Organic Compounds	Results	Follow	EPA 624		10/08/2012 04:17 CJD / /
Tetrachloroethene	<5	ug/l	EPA 624	5	10/08/2012 04:17 CJD / /
Surrogate Spike					/ / / /
1,2-Dichloroethane-d4	120	%	EPA 624		10/08/2012 04:17 CJD
Toluene-d8	105	%	EPA 624		10/08/2012 04:17 CJD
4-Bromofluorobenzene	102	%	EPA 624		10/08/2012 04:17 CJD / /

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
92436 0003FB Field Blank		10/01/2012 12:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Volatile Organic Compounds	Results	Follow	EPA 624		10/08/2012 02:16 CJD / /
Tetrachloroethene	<5	ug/l	EPA 624	5	10/08/2012 02:16 CJD / /
Surrogate Spike					/ / / /
1,2-Dichloroethane-d4	117	%	EPA 624		10/08/2012 02:16 CJD
Toluene-d8	105	%	EPA 624		10/08/2012 02:16 CJD
4-Bromofluorobenzene	103	%	EPA 624		10/08/2012 02:16 CJD / /

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VELAP ID 460017



Certificate of Analysis

Wednesday, November 7, 2012

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Beau Dodge

Report for Lab No: 92587.

P.O. Number: 198339

Project Identification: VPDES Permit, 10/9/12.

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION			Sample Date/Time	
92587 000001	Outfall 001			10/09/2012 07:50	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Volatile Organic Compounds	Results	Follow	EPA 624		10/20/2012 00:14 CJD
Acrolein	<10	ug/l	EPA 624	10	10/20/2012 00:14 CJD
Acrylonitrile	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Benzene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
* Bromodichloromethane	6	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Bromoform	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Bromomethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Carbon tetrachloride	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Chlorobenzene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Chloroethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
2-Chloroethylvinyl ether	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
* Chloroform	12	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Chloromethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Dibromochloromethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
1,2-Dichlorobenzene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
1,3-Dichlorobenzene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
1,4-Dichlorobenzene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
1,1-Dichloroethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
1,2-Dichloroethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
1,1-Dichloroethene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
trans-1,2-Dichloroethene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
1,2-Dichloropropane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
cis-1,3-Dichloropropene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
trans-1,3-Dichloropropene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Ethylbenzene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Dichloromethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
1,1,2,2-Tetrachloroethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Tetrachloroethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Toluene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
1,1,1-Trichloroethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
1,1,2-Trichloroethane	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD
Trichloroethene	<5	ug/l	EPA 624	5	10/20/2012 00:14 CJD

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VELAP ID 460017



Certificate of Analysis

Wednesday, November 28, 2012

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Beau Dodge

Report for Lab No: 92764.

P.O. Number: 198339

Project Identification: VPDES Permit, 10/17/12.

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
92764	000001	Outfall 001			10/17/2012 08:10	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Hardness (total)	180	mg/l	SM 2340C	1	10/22/2012 11:52 BJ	
Antimony	<0.005	mg/l	EPA 200.8	0.005	10/25/2012 17:21 CSG	
Arsenic	<0.002	mg/l	EPA 200.8	0.002	10/25/2012 17:21 CSG	
Beryllium	<0.0005	mg/l	EPA 200.8	0.0005	10/25/2012 17:21 CSG	
Selenium	<0.005	mg/l	EPA 200.8	0.005	10/25/2012 17:21 CSG	
Cadmium	<0.0005	mg/l	EPA 200.8	0.0005	10/25/2012 17:21 CSG	
Chromium	<0.002	mg/l	EPA 200.8	0.002	10/25/2012 17:21 CSG	
* Copper	<0.002	mg/l	EPA 200.8	0.002	10/25/2012 17:21 CSG	
Lead	<0.002	mg/l	EPA 200.8	0.002	10/25/2012 17:21 CSG	
* Nickel	0.002	mg/l	EPA 200.8	0.002	10/25/2012 17:21 CSG	
Silver	<0.001	mg/l	EPA 200.8	0.001	10/25/2012 17:21 CSG	
Mercury	<0.0005	mg/l	EPA 245.1	0.0005	11/01/2012 13:58 ENK	
Molybdenum	0.004	mg/l	EPA 200.8	0.002	10/25/2012 17:21 CSG	
* Zinc	0.02	mg/l	EPA 200.8	0.01	10/25/2012 17:21 CSG	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
92764	000002	Outfall 001			10/17/2012 08:10	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Base/Neutral/Acid Extractable Compounds	Results	Follow	EPA 625		11/10/2012 20:48 CJD	
					/ /	
Acenaphthene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Acenaphthylene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Anthracene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Benzo(a)anthracene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Benzo(b)fluoranthene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Benzo(k)fluoranthene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Benzo(a)pyrene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Benzo(ghi)perylene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Butyl benzyl phthalate	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Bis(2-chloroethoxy)methane	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Bis-(2-chloroethyl)ether	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	
Bis(2-chloroisopropyl)ether	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD	

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MARTEL

MARTEL NO.

92764

000002

Outfall 001

CLIENT SAMPLE IDENTIFICATION

Sample Date/Time

10/17/2012 08:10

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
* Bis(2-ethylhexyl)phthalate	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
4-Bromophenyl phenyl ether	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
2-Chloronaphthalene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
4-Chlorophenyl phenyl ether	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Chrysene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Dibenz(a,h)anthracene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
1,3-Dichlorobenzene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
1,4-Dichlorobenzene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
1,2-Dichlorobenzene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Diethyl phthalate	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Dimethyl phthalate	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
2,4-Dinitrotoluene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
2,6-Dinitrotoluene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Di-n-octylphthalate	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Fluoranthene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Fluorene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Hexachlorobenzene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Hexachlorobutadiene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Hexachloroethane	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Indeno-(1,2,3-cd)-pyrene	ND	ug/l	EPA 825	6.5	11/10/2012 20:48 CJD
Isophorone	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Naphthalene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Nitrobenzene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
N-Nitroso-di-N-propylamine	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Phenanthrene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Pyrene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
1,2,4-Trichlorobenzene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
4-Chloro-3-methylphenol	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
2-Chlorophenol	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
3,3'-Dichlorobenzidine	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
2,4-Dichlorophenol	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
2,4-Dimethylphenol	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Di-N-butyl phthalate	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
2,4-Dinitrophenol	ND	ug/l	EPA 625	13	11/10/2012 20:48 CJD
4,6-Dinitro-2-methylphenol	ND	ug/l	EPA 625	13	11/10/2012 20:48 CJD
2-Nitrophenol	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
4-Nitrophenol	ND	ug/l	EPA 625	13	11/10/2012 20:48 CJD
Pentachlorophenol	ND	ug/l	EPA 625	13	11/10/2012 20:48 CJD
Phenol	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
2,4,6-Trichlorophenol	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
1,2-Diphenylhydrazine	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Benzidine	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
Hexachlorocyclopentadiene	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
N-Nitrosodimethylamine	ND	ug/l	EPA 625	6.5	11/10/2012 20:48 CJD
N-Nitrosodiphenylamine	ND	ug/l	EPA 825	6.5	11/10/2012 20:48 CJD

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MARTEL



VELAP ID 460017



Certificate of Analysis

Wednesday, December 12, 2012

Arlington County WPC
3402 South Glebe Road

FINAL

Arlington, VA 22202

Attention: Beau Dodge

Report for Lab No: 92765.

P.O. Number: 198339

Project Identification: VPDES Permit and Methanol, 10/18/12.

if future # 68107

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
92765	000001	Outfall 001			10/18/2012 08:35	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Hardness (total)	160	mg/l	SM 2340C	1	10/22/2012 11:52 BJ	
Antimony	<0.005	mg/l	EPA 200.8	0.005	10/25/2012 17:24 CSG	
Arsenic	<0.002	mg/l	EPA 200.8	0.002	10/25/2012 17:24 CSG	
Beryllium	<0.0005	mg/l	EPA 200.8	0.0005	10/25/2012 17:24 CSG	
Selenium	<0.005	mg/l	EPA 200.8	0.005	10/25/2012 17:24 CSG	
Cadmium	<0.0005	mg/l	EPA 200.8	0.0005	10/25/2012 17:24 CSG	
Chromium	<0.002	mg/l	EPA 200.8	0.002	10/25/2012 17:24 CSG	
* Copper	<0.002	mg/l	EPA 200.8	0.002	10/25/2012 17:24 CSG	
Lead	<0.002	mg/l	EPA 200.8	0.002	10/25/2012 17:24 CSG	
* Nickel	0.002	mg/l	EPA 200.8	0.002	10/25/2012 17:24 CSG	
Silver	<0.001	mg/l	EPA 200.8	0.001	10/25/2012 17:24 CSG	
Mercury	<0.0005	mg/l	EPA 245.1	0.0005	11/12/2012 13:54 ENK	
Molybdenum	0.004	mg/l	EPA 200.8	0.002	10/25/2012 17:24 CSG	
* Zinc	0.03	mg/l	EPA 200.8	0.01	10/25/2012 17:24 CSG	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
92765	000002	Outfall 001			10/18/2012 08:35	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Base/Neutral/Acid Extractable Compounds	Results	Follow	EPA 625		11/11/2012 01:06 CJD	
Acenaphthene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD	
Acenaphthylene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD	
Anthracene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD	
Benzo(a)anthracene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD	
Benzo(b)fluoranthene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD	
Benzo(k)fluoranthene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD	
Benzo(a)pyrene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD	
Benzo(ghi)perylene	ND	ug/l	EPA 625	6.1	11/11/2012 01:08 CJD	
Butyl benzyl phthalate	ND	ug/l	EPA 625	6.1	11/11/2012 01:08 CJD	
Bis(2-chloroethoxy)methane	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD	
Bis-(2-chloroethyl)ether	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD	
Bis(2-chloroisopropyl)ether	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD	

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MARTEL

MARTEL NO.
92765 000002

Outfall 001

CLIENT SAMPLE IDENTIFICATION

Sample Date/Time
10/18/2012 09:35

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
* Bis(2-ethylhexyl)phthalate	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
4-Bromophenyl phenyl ether	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
2-Chloronaphthalene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
4-Chlorophenyl phenyl ether	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Chrysene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Dibenz(a,h)anthracene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
1,3-Dichlorobenzene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
1,4-Dichlorobenzene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
1,2-Dichlorobenzene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Diethyl phthalate	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Dimethyl phthalate	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
2,4-Dinitrotoluene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
2,6-Dinitrotoluene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Di-n-octylphthalate	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Fluoranthene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Fluorene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Hexachlorobenzene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Hexachlorobutadiene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Hexachloroethane	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Indeno-(1,2,3-cd)-pyrene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Isophorone	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Naphthalene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Nitrobenzene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
N-Nitroso-di-N-propylamine	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Phenanthrene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Pyrene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
1,2,4-Trichlorobenzene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
4-Chloro-3-methylphenol	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
2-Chlorophenol	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
3,3'-Dichlorobenzidine	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
2,4-Dichlorophenol	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
2,4-Dimethylphenol	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Di-N-butyl phthalate	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
2,4-Dinitrophenol	ND	ug/l	EPA 625	12.2	11/11/2012 01:06 CJD
4,6-Dinitro-2-methylphenol	ND	ug/l	EPA 625	12.2	11/11/2012 01:06 CJD
2-Nitrophenol	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
4-Nitrophenol	ND	ug/l	EPA 625	12.2	11/11/2012 01:06 CJD
Pentachlorophenol	ND	ug/l	EPA 625	12.2	11/11/2012 01:06 CJD
Phenol	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
2,4,6-Trichlorophenol	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
1,2-Diphenylhydrazine	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Benzidine	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
Hexachlorocyclopentadiene	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
N-Nitrosodimethylamine	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD
N-Nitrosodiphenylamine	ND	ug/l	EPA 625	6.1	11/11/2012 01:06 CJD

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